

**STATE OF NEW HAMPSHIRE**  
**SITE EVALUATION COMMITTEE**

October 26, 2017 - 2:06 p.m. DAY 52  
49 Donovan Street Afternoon Session ONLY  
Concord, New Hampshire

*{Electronically filed with SEC 11-09-17}*

**IN RE: SEC DOCKET NO. 2015-06**  
**NORTHERN PASS TRANSMISSION -**  
**EVERSOURCE; Joint Application of**  
**Northern Pass Transmission LLC and**  
**Public Service of New Hampshire d/b/a**  
**Eversource Energy for a**  
**Certificate of Site and Facility**  
**(Hearing on the Merits)**

**PRESENT FOR SUBCOMMITTEE/SITE EVALUATION COMMITTEE:**

<b>Chmn. Martin Honigberg</b> <i>(Presiding Officer)</i>	Public Utilities Comm.
<b>Cmsr. Kathryn M. Bailey</b>	Public Utilities Comm.
<b>Dir. Craig Wright, Designee</b>	Dept. of Environ.Serv.
<b>Christopher Way, Designee</b>	Dept. of Business & Economic Affairs
<b>William Oldenburg, Designee</b>	Dept. of Transportation
<b>Patricia Weathersby</b>	Public Member

**ALSO PRESENT FOR THE SEC:**

Michael J. Iacopino, Esq. Counsel for SEC  
Iryna Dore, Esq.  
*(Brennan, Caron, Lenehan & Iacopino)*

Pamela G. Monroe, SEC Administrator

*(No Appearances Taken)*

**COURT REPORTER: Cynthia Foster, LCR No. 14**

I N D E X

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**P R O C E E D I N G S****(Hearing resumed at 2:06 p.m.)**

PRESIDING OFFICER HONIGBERG: Mr. Reimers,  
you may proceed.

**CROSS-EXAMINATION****BY MR. REIMERS:**

Q Good afternoon, gentlemen. My name is Jason Reimers. I represent the Society for the Protection of New Hampshire Forests, and I just have a few questions for you today.

Do you have an understanding of the carbon benefits of the Northern Pass Project compared to the carbon benefits of the Granite State Power Link Project proposed by National Grid?

A (Weiss) Explain what you mean by "do we have an understanding."

Q Do you have an opinion or knowledge of the comparable carbon benefits of those two Projects?

A (Weiss) We have not estimated the carbon impact of projects other than the Northern Pass Project.

Q When Les Otten was on the stand, Commissioner Bailey asked him, quote, "Would it change your

1 opinion of the Project if the resource that will  
2 be delivered over this line is currently being  
3 delivered to Ontario or New York so we've  
4 already gotten the benefit of the carbon  
5 reduction and we're just shifting it," end  
6 quote. That was the transcript for Day 44, AM,  
7 page 68. So earlier today, you mentioned  
8 shifting energy from one region to another. And  
9 I understand, am I correct in understanding that  
10 whether that is happening in this case is an  
11 unknown at this point?

12 A (Weiss) I think that is a fair statement, yes.  
13 At least we weren't able to completely  
14 understand whether it would result in  
15 incremental greenhouse gas emission reductions  
16 or there would just be clean energy being  
17 shifted from one market to another.

18 Q So how would you go about determining that?

19 A (Weiss) I would seek sort of more clarity as to  
20 what the sources of the clean energy are that  
21 are being delivered over Northern Pass in this  
22 case, and I think our testimony earlier in our  
23 reports indicate that we're not entirely sure  
24 what those sources are.

1 Q Mr. Otten answered Commissioner Bailey as  
2 follows, quote, "Hypothetically, I would have to  
3 know whether this is a better route, whether  
4 this is more efficient, whether it was going to  
5 get the power closer to the customers, whether  
6 it was going to benefit people, what coal plants  
7 was it going to replace. Hypothetically, if  
8 you're just swapping one line for another,  
9 hypothetically, you might change my opinion, but  
10 from the knowledge that I have, this 1090  
11 megawatts is not being consumed by the  
12 marketplace and it will replace over 1000  
13 megawatts of power that is fossil-based," end  
14 quote.

15 What is your opinion as to the accuracy of  
16 Mr. Otten's statements or his believe that this  
17 1090 megawatts is currently not being consumed  
18 by the marketplace?

19 A (Newell) I think that's a rephrasing of the same  
20 question. We haven't been able to say  
21 definitively.

22 Q And would you say the same to his belief that  
23 the Northern Pass would replace over 1000  
24 megawatts of power that is fossil-based?

1 A (Weiss) Well, so, you know, I think that the  
2 tricky part is there's a destination market part  
3 of it and there is the where does it come from  
4 in some ways. So I think one can argue that  
5 something close to that is true in terms of what  
6 that power would displace in the destination  
7 market, but the carbon benefits would only be  
8 equivalent to displacing a thousand, just call  
9 it 1090 megawatts of emissions-free,  
10 substituting that for fossil generation. Those  
11 are only the carbon benefits if you're not  
12 increasing emissions elsewhere. In other words,  
13 if that is really clean energy that is not  
14 currently displacing carbon emissions elsewhere.  
15 So I think, you know, I could agree to some  
16 extent with the second half with the might  
17 displace 1000 membranes of fossil in the  
18 destination market, but --

19 Q But not overall?

20 A (Weiss) But may not overall, correct.

21 A (Newell) That would depend whether there's, in  
22 fact, incremental clean generation.

23 Q Thank you. I don't have any further questions.

24 PRESIDING OFFICER HONIGBERG: Ms. Birchard?

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**CROSS-EXAMINATION**

**BY MS. BIRCHARD:**

Q Yes. Thank you. Good afternoon, Dr. Weiss and Dr. Newell. I think I will stay seated if that's acceptable. My name is Melissa Birchard. I'm an attorney for Conservation Law Foundation, but I'm also the designated spokesperson for a group of Intervenors comprising the Appalachian Mountain Club, Ammonoosuc Conservation Trust and Conservation Law Foundation.

Mr. Anderson, with New England Power Generators Associates, NEPGA, earlier raised Northern Pass's bids in the Massachusetts RIP, Request for Proposals, process with you before the lunch break today; is that correct?

A (Weiss) Yes.

Q In particular, Mr. Anderson referenced a combined wind and hydroelectricity energy supply proposal. Do you recall that?

A (Weiss) Yes.

Q To your knowledge, was this mixed resource proposal referenced in the Application in this proceeding?

A (Weiss) I don't know.



1 Q Mr. Newell? Do you have an answer to the  
2 question?

3 A (Newell) I don't know everything that might have  
4 been referenced in this proceeding so I can't  
5 answer that. I don't think that was the concept  
6 specifically that was in the analyses we  
7 reviewed.

8 Q Let the record note that Dr. Weiss is nodding  
9 his head in agreement.

10 A (Weiss) Yes. That is true. Yes.

11 Q To your knowledge, was this mixed resource  
12 proposal referenced in the testimony provided by  
13 the Joint Applicants in this proceeding?

14 A (Weiss) I would answer sort of the same way.  
15 I'm not entirely sure, but it was not referenced  
16 in the energy market benefit analysis and  
17 emissions benefit analysis we reviewed.

18 Q Thank you. To your knowledge, was this  
19 introduced into the record in any other way by  
20 the Applicants?

21 A (Weiss) I don't know.

22 Q It's a "to your knowledge" question so you can  
23 certainly say no.

24 A (Weiss) No. I just don't know. So I guess the

1 answer would be no.

2 Q Thank you. And let the record reflect that  
3 Dr. Newell is nodding his head in agreement.  
4 Thank you.

5 Was there any reference to a wind resource  
6 by the Applicants in the Applicant's Application  
7 or the case-in-chief to your knowledge? A wind  
8 resource?

9 A (Newell) Same answer.

10 Q Same answer. Thank you.

11 A (Weiss) No.

12 Q Have you had access, either of you had access to  
13 unredacted copies of the Northern Pass  
14 Massachusetts RFP bids?

15 A (Weiss) No.

16 A (Newell) No.

17 Q Have either of you had access to any other  
18 nonpublic information about the Northern Pass  
19 Massachusetts RFP bids?

20 A (Weiss) I'm going to say no.

21 A (Newell) No.

22 Q If you were asked today to perform analysis of  
23 the combined wind and hydroelectricity proposal  
24 that was referenced earlier, would you have in

1 front of you the information that you need to  
2 fully assess its projected market impacts?

3 A (Weiss) We have no information in front of us so  
4 clearly no.

5 A (Newell) Also you have to remember that that, we  
6 didn't have full information to assess what we  
7 did analyze. I mean, that's part of why we  
8 described a number of unknowns. We'd still have  
9 a number of unknowns if we analyzed a slightly  
10 different project.

11 Q Thank you. It sounds like the answer is no.  
12 Let the record reflect an agreement.

13 Mr. Chairman, I have no further questions  
14 on this line of cross-examination and would like  
15 to move on to the next one on my list, but I  
16 would like to just briefly flag before moving on  
17 that based on the testimony of Dr. Weiss and  
18 Dr. Newell here today and their responses to the  
19 questions of Mr. Anderson and myself, I  
20 anticipate that subject to further discussions  
21 with the other members of the NGO Intervenor  
22 grouping and my own colleagues, I may file a  
23 motion for clarification as to whether the  
24 hybrid wind hydroelectricity project proposal is

1 appropriately before the Committee for  
2 discussion. Having flagged this, I will keep  
3 moving on to my next subject of  
4 cross-examination.

5 I'd like to discuss recent documents  
6 regarding competing energy projects. When Julia  
7 Frayer of London Economics was on the stand, she  
8 acknowledged perhaps most clearly in response to  
9 questions from Commissioner Bailey that a  
10 similar Project that is similar to Northern  
11 Pass, a similar Project like the TDI Clean Power  
12 Link Project would have very similar electricity  
13 market impacts, particularly capacity market  
14 impacts. You would agree with that general  
15 conclusion; is that correct?

16 A (Newell) Basically, yes. Some details could be  
17 different. Its MOPR review could be different  
18 but basically, yes. And that's part of what our  
19 concept was. In Scenario 4 we basically assumed  
20 that.

21 Q Is it true that Granite State Power Link which  
22 was just referenced a moment ago, a Project of  
23 National Grid, proposes to deliver to New  
24 England an additional 110 megawatts of

1 electricity beyond what Northern Pass proposes  
2 at, I believe, a total of 1200 megawatts of  
3 total capacity but will largely use an existing  
4 line through the state of New Hampshire? Are  
5 you aware of that and is that your  
6 understanding?

7 A (Newell) So I should say that I'm, it's probably  
8 true for both of us, we're generally aware of  
9 that proposal. We haven't studied that proposed  
10 project in great detail. So I can't, I don't  
11 know offhand whether that's 100 megawatts more  
12 or --

13 Q You don't know exactly what the size of the  
14 project is?

15 A (Newell) No. Right.

16 Q But you're familiar with it?

17 A (Newell) General similar size, but --

18 Q Similar size. And are you also aware that it  
19 proposes to use an existing transmission line  
20 through the state of New Hampshire?

21 MR. NEEDLEMAN: Objection. Relevance.

22 PRESIDING OFFICER HONIGBERG: Ms. Birchard?

23 MS. BIRCHARD: The relevance is the extent  
24 to which cost similarities to Northern Pass can

1 be established.

2 PRESIDING OFFICER HONIGBERG: That Project  
3 is not before the Committee.

4 MS. BIRCHARD: So we have compared the  
5 Project to TDI in terms of capacity market and  
6 GHG impacts. There are some other projects out  
7 there --

8 (Court reporter interruption)

9 PRESIDING OFFICER HONIGBERG: You're  
10 speaking way too fast.

11 MS. BIRCHARD: Pardon me. We could  
12 previously compared the Project to the TDI Power  
13 Link Project for purposes of better  
14 understanding potential capacity market impacts,  
15 GHG impacts and other types of impacts and  
16 potential benefits, in particular to the state  
17 of New Hampshire. I would argue that other  
18 projects than TDI including, for example, the  
19 National Grid Project may bear some discussion,  
20 not extensive discussion, but very brief  
21 discussion in terms of better understanding  
22 potential benefits to the state of New  
23 Hampshire.

24 PRESIDING OFFICER HONIGBERG: Mr.

1 Needleman?

2 MR. NEEDLEMAN: I don't recall any of those  
3 things that Ms. Birchard just talked about, and  
4 my experience certainly before the Committee is  
5 that comparison of a Project before the  
6 Committee to other Projects that may or may not  
7 come before the Committee has no relevance.

8 PRESIDING OFFICER HONIGBERG: Yes. And I  
9 don't recall what you were referencing, the  
10 comparisons you say that have been aired in the  
11 proceedings so far. What are you referring to?

12 MS. BIRCHARD: I don't have citations in  
13 front of me, but I think even today we've done a  
14 little bit of comparison to some other projects  
15 in terms of GHG impacts, in terms of capacity  
16 market impacts.

17 PRESIDING OFFICER HONIGBERG: I don't  
18 recall the same things you do. The objection is  
19 sustained.

20 MS. BIRCHARD: Thank you.

21 BY MS. BIRCHARD:

22 Q Are you aware of how many bids were submitted in  
23 the Massachusetts RFP process?

24 A (Weiss) Yeah. I don't know the exact number,

1 but it's ten to 20 or more.

2 Q Okay.

3 A (Weiss) Large number of total bids.

4 Q I think it might be more, but thank you for that  
5 response.

6 A (Weiss) 25.

7 Q You're not aware but it's a significant number?

8 A (Weiss) Significant number, right.

9 Q Significant number. And based on your  
10 information, is it your opinion that there are  
11 multiple serious contenders among those bidders  
12 that may include Northern Pass, but are there  
13 other potential serious contenders?

14 MR. NEEDLEMAN: Objection. Relevance.

15 PRESIDING OFFICER HONIGBERG: What's the  
16 relevance?

17 MS. BIRCHARD: Well, among other things,  
18 There have been statements in this proceeding  
19 that Northern Pass may not proceed without  
20 success in the Massachusetts RFP process and  
21 certainly the ability of Northern Pass to  
22 succeed is relevant to the state of New  
23 Hampshire and the benefits.

24 PRESIDING OFFICER HONIGBERG: There have



1           been a lot of questions about that from  
2           Intervenors and others. I don't know that any  
3           witnesses have said that the Project won't be  
4           built if it doesn't win the Mass. RFP. Any  
5           Applicant witnesses.

6           MS. BIRCHARD: I believe that Mr. Bowes  
7           made certain statements to that effect. I don't  
8           know that I have the citation in front of me,  
9           but it was to the effect that in the context of  
10          whether or not additional undergrounding would  
11          be economically feasible. Mr. Bowes made the  
12          statement in his testimony that, and I believe  
13          this was his Supplemental Testimony, that there  
14          were rising costs associated with the Project  
15          already and that there were formidable hurdles  
16          to overcome for the success of the Project,  
17          including the importance of success in the  
18          Massachusetts RFP bidding procedures.

19          PRESIDING OFFICER HONIGBERG: Mr.  
20          Needleman?

21          MR. NEEDLEMAN: That was not the testimony  
22          that Mr. Bowes was talking about certainly, and  
23          I believe Mr. Quinlan was asked these questions  
24          directly.

1 PRESIDING OFFICER HONIGBERG: I'm sorry.

2 Who was asked the question?

3 MR. NEEDLEMAN: Mr. Quinlan. I don't think  
4 Ms. Birchard is correct here.

5 PRESIDING OFFICER HONIGBERG: I'm not sure  
6 that these witnesses are even going to be able  
7 to answer your question, but I'll allow it, but  
8 I don't know how much further beyond that  
9 question you'll be allowed to go, but if they  
10 have an answer, they can give it.

11 BY MS. BIRCHARD:

12 Q So I actually have no further questions beyond  
13 that, but my -- on that particular line of  
14 questioning, I should say. But I can repeat it  
15 for you because you've probably forgotten it at  
16 this time.

17 A (Weiss) That would be a good idea.

18 Q Okay. Is it your opinion that there are  
19 multiple serious contenders among the  
20 Massachusetts RFP bidders that could potentially  
21 succeed in that process?

22 A (Weiss) So I guess I'm not sure how you define a  
23 serious contender, and I don't know how the  
24 evaluation process will be conducted specifically

1 in Massachusetts. But, you know, the parties  
2 that have submitted bids certainly have names  
3 attached to them that suggest that they have  
4 experience. Whether the specific projects are  
5 serious enough, I haven't evaluated.

6 Q Thank you. I assume that answer applies to you  
7 as well, Dr. Newell?

8 A (Newell) Yeah. Correct. We have not done any  
9 detailed evaluation of how likely any one of  
10 them is to pass all their criteria, how likely  
11 any one of them is to win. Only made the point  
12 that there is a possibility that there are other  
13 viable alternatives, and that this Project might  
14 be competing with those.

15 Q And to your knowledge, would some of those other  
16 projects also have the potential to have GHG  
17 impacts in the positive arena?

18 A (Weiss) So not having seen or reviewed in detail  
19 those proposals, it's hard to tell, because I,  
20 for example, you know, hydropower is a portion  
21 of at least some of those proposals. So I  
22 suspect similar questions would arise that have  
23 been discussed today about whether those hydro  
24 resources or the hydropower comes from existing

1 or new hydro resources.

2 Q Thank you. A number of the bids include a  
3 transmission component similar to the Northern  
4 Pass Transmission component, but not all of them  
5 do; is that your understanding?

6 MR. NEEDLEMAN: I'm going to object again  
7 at this point. I just don't understand the  
8 relevance of this.

9 PRESIDING OFFICER HONIGBERG: Ms. Birchard?

10 MS. BIRCHARD: The relevance will go  
11 towards, again, the benefits to New Hampshire,  
12 whether there are other cheaper sources of  
13 electricity and other means to achieve a similar  
14 environmental benefits.

15 PRESIDING OFFICER HONIGBERG: Sustained.

16 BY MS. BIRCHARD:

17 Q In your opinion, is it possible that a long-term  
18 contract, this is in that line of questioning  
19 but skipping to the end so that you can assess  
20 whether or not the question is appropriate,  
21 Mr. Chairman, in your opinion could a long-term  
22 contract like the one that Eversource and  
23 Northern Pass Transmission have described in  
24 this proceeding have the same benefits but

1 higher costs than transmission of  
2 hydroelectricity into the US on a merchant  
3 basis?

4 PRESIDING OFFICER HONIGBERG: What  
5 long-term contract?

6 MS. BIRCHARD: A long-term arrangement for  
7 hydroelectricity as opposed to --

8 PRESIDING OFFICER HONIGBERG: To be  
9 purchased by Eversource or PSNH? That contract  
10 was withdrawn.

11 MS. BIRCHARD: I'm talking about projects  
12 with long-term arrangements for power as opposed  
13 to projects with open capacity for merchant  
14 transmission of power. So in this instance,  
15 Hydro-Quebec has committed to transmit  
16 hydroelectricity over the line in a certain  
17 amount for a certain amount of time, and there  
18 are other projects that have open capacity for  
19 the transmission of merchant power as opposed to  
20 that long-term commitment of power.

21 PRESIDING OFFICER HONIGBERG: So your  
22 hypothesizing some arrangement that isn't before  
23 us that they might enter into? That might  
24 affect the?

1 MS. BIRCHARD: Again, it goes towards  
2 whether or not there are other projects in the  
3 market with similar parameters but important  
4 differences that could actually lower the costs  
5 for the state of New Hampshire.

6 PRESIDING OFFICER HONIGBERG: Mr.  
7 Needleman?

8 MR. NEEDLEMAN: Same objection.

9 PRESIDING OFFICER HONIGBERG: Sustained.

10 BY MS. BIRCHARD:

11 Q Moving on, I'd like to next discuss the ongoing  
12 integrating markets and public policy effort at  
13 ISO New England. Just for a moment, are you  
14 familiar with that process generally, Dr. Newell  
15 or Dr. Weiss?

16 A (Newell) Yes.

17 A (Weiss) Yes.

18 Q And you're aware that it's also referred to as  
19 IMAPP or IMAPP for short, correct?

20 A (Weiss) Yes.

21 Q I'll use that for convenience.

22 In simple terms, one of the objectives of  
23 IMAPP is to influence the resource mix  
24 participating in the New England markets; is

1           that correct?

2       A     (Newell) That is, I believe, one of the stated  
3           objectives, yes.

4       Q     In your professional opinion, is it then  
5           possible that IMAPP could have an impact on the  
6           resource mix and diversity in those markets?

7       A     (Newell) Nothing has been established yet in the  
8           IMAPP process so I'd be speculating. But hold  
9           on just a second.

10           Well, I should just mention that colleagues  
11           of ours are working on that, including with the  
12           organization you represent, CLF, and I don't  
13           know if that affects, it's a question, I don't  
14           know if that affects the appropriateness of us  
15           talking about that, but I can say from public  
16           information, again, I don't think anything has  
17           been determined so it would be speculating to  
18           say where it will go.

19       Q     Thank you. Yes. And for the record, we have  
20           not spoken previously about this subject,  
21           correct?

22       A     (Weiss) That is correct.

23       Q     Yes. Okay. Finally, I'd like to ask you a few  
24           questions about an Exhibit I prepared. This is

1 the last subject so let me draw it up for a  
2 moment, if you'll bear with me.

3 (Discussion off the record)

4 Q I apologize for that delay. I think we are live  
5 now.

6 A (Weiss) Yes. We can see it.

7 Q Okay. Great. So this exhibit has been marked  
8 as NGO Exhibit 35 and will be made available to  
9 the parties. If you wouldn't mind taking a look  
10 at it, you can see it's labeled at the top as a  
11 Commonwealth Magazine article dated October  
12 12th, 2017, and the title is National Grid Calls  
13 Foul on Hydro-Quebec Proposal. Do you see that?

14 A (Weiss) Yes.

15 Q Have you seen this article before?

16 A (Weiss) I actually have seen it before.

17 Q Okay. And you are aware of statements made in  
18 this proceeding to the effect that Hydro-Quebec  
19 is not building additional incremental  
20 hydroelectric generating capacity for the  
21 purpose of specifying of serving Northern Pass;  
22 is that correct? So there's been --

23 A (Weiss) Can you repeat that question the way you  
24 want it answered?



1 Q Are you aware of statements made in this  
2 proceeding to the effect that Hydro-Quebec is  
3 not building additional incremental  
4 hydroelectric generating capacity for the  
5 purpose of serving Northern Pass?

6 A (Weiss) So there are a lot of double negatives  
7 in there so I'm not aware of any statements that  
8 they will not build any incremental hydro  
9 capacity specifically for this Project.

10 Q Maybe a little confusing so let me see if I  
11 can --

12 A (Weiss) No. I'm not aware of any statements.

13 Q Is whether or not new generating capacity is  
14 built for the purpose of the Project relevant to  
15 capacity market analyses including the Internal  
16 Market Monitor's analysis?

17 A (Newell) Yes.

18 Q So I am scrolling down a little bit on to page  
19 2. You'll see the first highlighted passage  
20 just identifies a certain individual, Lynn  
21 St-Laurent, as a spokeswoman for Hydro-Quebec,  
22 and I apologize to the French speakers. I do  
23 not speak French.

24 Moving down a little further, there's a

1 quotation from Lynn St-Laurent, the spokeswoman  
2 for Hydro-Quebec, and the first sentence here  
3 seems to be a reference to the fact that  
4 National Grid is accusing Northern Pass of some  
5 kind of deficiency, but that's not where I'd  
6 like to focus your attention. Its just below  
7 that. The subsequent 2 or 3 sentences read, and  
8 this is a quote from St-Laurent or St-Laurent, I  
9 don't know which it is. "Hydro-Quebec has built  
10 4,500 megawatts of new hydropower in response to  
11 several legislative mandates to decarbon and  
12 diversify the power sector in Massachusetts and  
13 through the northeast. Another 600 megawatts is  
14 currently under construction and will be  
15 available by 2020. Because of the long lead  
16 times associated with the design and  
17 construction of hydropower infrastructure  
18 projects, HQ has made ongoing investments in  
19 advance of today's market opportunity."

20 If Hydro-Quebec is, in fact, building new  
21 hydroelectric resources for the purpose of  
22 serving the Massachusetts RFP through this  
23 particular Project, the Northern Pass Project,  
24 then in your opinion what kind of general impact

1           could that have on the ISO New England Internal  
2           Market Monitor's Minimum Offer Price Review  
3           analysis?

4           A     (Newell) It may be a significant factor. One of  
5           the things we showed in our testimony was that  
6           if the full cost of new hydrogeneration is  
7           included in that MOPR analysis what is the  
8           competitive cost of this resource. That number  
9           would be very, very high. There would be no  
10          chance of clearing in the market and having a  
11          capacity market impact.

12                 Now, we don't actually know how the Market  
13          Monitor will do that. This is not a standard  
14          calculation. I don't think they've had any  
15          elective transmission upgrades go through this,  
16          but certainly not, you know, not with public  
17          information on how they went through it in any  
18          case and not with all these specifics.

19                 So we don't actually know how the Market  
20          Monitor would deal with it. What if it's  
21          something subtle like this like okay, they  
22          didn't build a new dam just for this Project,  
23          but they've been building sort of over time in  
24          anticipation of sales like this, would the

1 Market Monitor view that as kind of in the long  
2 run that's new, you've got to count the cost of  
3 a dam or would he say ah, it's more subtle than  
4 that, I won't include it. I mean, I can think  
5 of economic arguments for including that cost,  
6 but we just don't know what the Market Monitor  
7 would do.

8 Q Do you agree with that, Dr. Weiss?

9 A (Weiss) Yes, broadly speaking, I'm agreeing  
10 exactly with what he said. I would perhaps add  
11 two things. One, if Hydro-Quebec did build, as  
12 sort of stated there, new hydro facilities in  
13 anticipation of selling into the northeast, that  
14 would strengthen the case that this would result  
15 in emissions reductions over the case where it's  
16 just shifting existing hydro resources from one  
17 market to another.

18 And then the other point sort of  
19 elaborating on the same MOPR discussion so just,  
20 so we don't know what the Market Monitor would  
21 do, but in some sense, I think in terms of the  
22 spirit so it can't be that saying I do or do not  
23 build a plant for a specific contract, that  
24 cannot be sufficient to not have the cost of

1 that project be included in the review.

2 So, for example, let's just assume some  
3 other New England state decided as a matter of  
4 policy, public policy, to build, to subsidize  
5 and build 2000 megawatts of new combined cycle  
6 plants every year because they somehow think  
7 that's in the benefit of the state. I doubt,  
8 but we don't know, but I doubt that, you know,  
9 in terms of what the MOPR is trying to  
10 accomplish that one could say well, that's  
11 something that would have happened anyway so  
12 we're not counting the cost of any specific, of  
13 the combined cycle for a specific bid into the  
14 Capacity Market.

15 So that's the other thing here is that in  
16 terms of the MOPR we don't know for sure, but if  
17 the Province of Quebec has a public policy to  
18 build new hydro resources, and that may be a  
19 really good policy for Quebec, it may be a  
20 really good policy for the region including New  
21 England, that by itself does not mean that the  
22 Market Monitor would not count the cost of  
23 building these new hydro resources in its MOPR  
24 analysis.

1 Q Thank you. That's all my questions.

2 PRESIDING OFFICER HONIGBERG: Ms. Pacik?

3 **CROSS-EXAMINATION**

4 **By MS. PACIK:**

5 Q Thanks. I'll just need Attorney Birchard to go  
6 off the Apple TV, and I think that way Attorney  
7 Whitley can sync into it.

8 Okay. Good afternoon. Danielle Pacik.  
9 I'm sitting over here. Thank you.

10 A (Weiss) Hi.

11 Q I am the attorney for the City of Concord, and I  
12 am also the spokesperson for Municipal Group  
13 3-South, and I have a few questions for you.

14 Starting off with something that you raised  
15 in your Prefiled Supplemental Testimony on page  
16 2, line 13, and in that section, you discuss the  
17 fact that Applicants have made recent statements  
18 that proceeding with the proposed Northern Pass  
19 Transmission line depends on winning a  
20 competitive solicitation for clean energy, and  
21 you're familiar with that statement that you  
22 made?

23 A (Newell) We're just opening up the report right  
24 now. You said page?

1 Q It was Supplemental Prefiled Testimony. Page 2.  
2 Right around line 13.

3 A (Weiss) Is it testimony or report?

4 Q Testimony. This was the easy part.

5 A (Weiss) That's what you thought.

6 A (Newell) Now we found our testimony.

7 Q Excellent. You recall making that statement?

8 A (Newell) Yes.

9 Q Okay. So I just want to clarify it because we  
10 did hear during the testimony of Bill Quinlan on  
11 April 13th, 2017, that he thought the proposed  
12 line would be built even if NPT did not win a  
13 solicitation, and during his testimony he also  
14 referenced opportunities in both Rhode Island  
15 and Connecticut for Northern Pass to possibly  
16 bid into.

17 And I'd like to turn to what's been  
18 previously marked as Counsel for the Public 600  
19 which we saw earlier today which is the  
20 transcript from the second quarter investor call  
21 on July 28th, 2017, which occurred approximately  
22 three months after Mr. Quinlan testified. And  
23 if we go to page 8 of that document, there is a  
24 question from Michael Weinstein which is at the

1 top, and we'll just blow it up to make sure you  
2 can read it. Can you see what's on the screen  
3 sufficiently?

4 A (Weiss) Yes.

5 Q Okay. So the question from Mr. Weinstein, and I  
6 have the section highlighted I wanted to refer  
7 you to, was he asked and also separately how  
8 critical is winning the RFPs to keeping the  
9 Project on track? I mean, my understanding is  
10 they're not, it's not critical. What happens if  
11 you lose? I understand there's other  
12 opportunities in these other states that are --  
13 will be coming next year. But how critical is  
14 it to keeping the Project on track?

15 And Leon Olivier responded that, and this  
16 is in the highlighted section, in regards to the  
17 Project, whether we win the RFP or not, we are  
18 submitted to build the Project and HQ is. But  
19 then he goes on to state, I have stated there  
20 are a lot of opportunities in all of these  
21 states for clean energy.

22 I just want to talk for a brief moment  
23 about his reference to a lot of opportunities in  
24 all these states for clean energy. I believe



1 what he's referencing is page 6 of this call,  
2 and if we go right up there we can look at what  
3 the other opportunities he had talked about  
4 were. We're just going to scroll down a moment  
5 to find them.

6 All right. So he talks about the first  
7 Mass. RFP, but then in the next, in that first  
8 highlighted paragraph he also references that in  
9 New York, Governor Cuomo announced a goal of  
10 procuring 400 megawatts of offshore wind with  
11 the first RFP expected early next year.

12 So in terms of other opportunities in other  
13 states, that New York solicitation, NPT would  
14 not be eligible to bid into that, would it?  
15 Because that's for offshore wind?

16 A (Weiss) So I'm not sure we have all the  
17 information here to say that, but I think one of  
18 the tricky parts of interpreting this document  
19 is it's an investor call, and Eversource is  
20 involved in a number of projects and some of  
21 them are not related to Northern Pass. So the  
22 fact that this section here lists other clean  
23 energy solicitations does not mean that those  
24 are the solicitations that might be alternatives

1 for Northern Pass if for some reason it didn't  
2 succeed in the Mass. RFP. It might just apply  
3 to other projects that Eversource is involved in  
4 either directly or through a joint venture.

5 Q Okay. And I'll just represent to you that this  
6 entire document is going to be marked and  
7 provided, I believe it already has, as an  
8 exhibit so, obviously, the Committee can read  
9 the entire document, but I'll represent to you  
10 for now that this was the introductory remarks  
11 in terms of other eligible bids that they were  
12 looking at that would apply to either NPT or  
13 Baystate Wind which was the partnership between  
14 Eversource and DONG Energy for wind.

15 So when Mr. Olivier referenced later on in  
16 the call the other state bids, this is what he  
17 was referencing. So I'll just represent that to  
18 you to help you focus the question.

19 So in terms of that first one though for  
20 New York, that would be an offshore wind  
21 project, right?

22 A That's correct.

23 Q And then the second one is Rhode Island Governor  
24 Gina Raimondo has announced a goal of procuring

1 1000 megawatts of clean energy by 2020. Are you  
2 familiar with that solicitation?

3 A (Weiss) So I am not, we're not aware of that  
4 being a solicitation at this point.

5 Q Do you know whether that would be for clean  
6 energy or for wind?

7 A (Weiss) So we don't know.

8 Q Okay. So at this point there's been no details  
9 as to whether it will be clean energy or wind or  
10 what the solicitation would entail?

11 A (Weiss) I'm not aware of any detail beyond just  
12 having announced a goal of procuring 1000  
13 megawatts of clean energy.

14 Q So fair to say nothing has been announced to  
15 date by Rhode Island?

16 A (Weiss) Nothing that I'm aware of.

17 Q Okay.

18 A (Newell) Well, hold on. In terms of a specific  
19 solicitation. All of the southern New England  
20 states and New York have clean energy goals, and  
21 they just haven't fully specified how they're  
22 going to go meet them.

23 Q Right. And so there's a big difference between  
24 having a clean energy goal and having a

1 potential solicitation that NPT could  
2 potentially bid into, right?

3 A (Newell) Well, one can turn into the other.

4 Q And alternatively, one could just end up being  
5 offshore wind, right?

6 A (Newell) Could.

7 Q Okay. So the next one is a reference to  
8 Connecticut, and it's Public Act 17-144 and,  
9 again, that would just be for offshore wind,  
10 right?

11 MR. NEEDLEMAN: Objection. Relevance.

12 PRESIDING OFFICER HONIGBERG: Ms. Pacik?

13 MS. PACIK: It goes to the credibility of  
14 Mr. Quinlan. He specifically testified about  
15 the potential to bid into both Rhode Island and  
16 Connecticut by NPT, and I'm trying to identify  
17 whether there are even any potential  
18 solicitations available in either of those  
19 states for NPT, and those were specifically  
20 referenced during his testimony, and I can pull  
21 that up if need be.

22 PRESIDING OFFICER HONIGBERG: Mr.  
23 Needleman, you're looking like you want to say  
24 something.

1 MR. NEEDLEMAN: Yes, I'm just confused. I  
2 think the principal point in Mr. Quinlan's  
3 testimony is when he was asked do they have to  
4 win the Mass. RFP I think he said no, and I  
5 think that was reflected earlier in  
6 Mr. Olivier's call, and I think he talked  
7 theoretically about the possibility for others  
8 but didn't say anything about dependent. So I'm  
9 not sure why any of this matters to what the  
10 Committee has to decide.

11 MS. PACIK: He went into detail about the  
12 fact that there are other potential  
13 solicitations available both in Rhode Island and  
14 Connecticut that NPT would look at bidding into,  
15 and from what we can tell at least here, Rhode  
16 Island, there's no information whether --

17 PRESIDING OFFICER HONIGBERG: So you've got  
18 these two witnesses on the stand that you're  
19 showing them documents and you're asking them to  
20 assert the truth of these documents that will  
21 somehow impeach. You said credibility. Impeach  
22 Mr. Quinlan's testimony.

23 MS. PACIK: No. I'm trying to identify  
24 whether there are indeed any potential

1           solicitations in either Rhode Island or  
2           Connecticut that NPT could bid into.

3           PRESIDING OFFICER HONIGBERG: Have you  
4           asked these witnesses that question?

5           MS. PACIK: Yes, I'm going through it right  
6           now. We just went through Rhode Island.

7           PRESIDING OFFICER HONIGBERG: You're  
8           showing them a bunch of documents that say what  
9           you want them to say. These witnesses don't  
10          need to be here for you to use those documents.  
11          Do they? I mean, are they adding anything to  
12          the documents?

13          MS. PACIK: Yeah, they're clarifying  
14          because for, they're clarifying what these  
15          projects entail in trying to figure out whether  
16          or not the Rhode Island one was for wind versus  
17          hydro. We just find out that we don't know yet.

18          PRESIDING OFFICER HONIGBERG: They don't  
19          know. They don't have personal knowledge about  
20          any of this. You're showing them documents.

21          MS. PACIK: Right.

22          PRESIDING OFFICER HONIGBERG: They're not  
23          their documents. They didn't write them,  
24          they're not quoted in them, they haven't studied

1           them. Do you need them to prove what you're  
2           trying to prove, that Mr. Quinlan was wrong? I  
3           don't understand how you do.

4           MS. PACIK: Mr. Quinlan made a statement  
5           that he was looking to bid into Rhode Island and  
6           Connecticut potentially.

7           PRESIDING OFFICER HONIGBERG: Got that.

8           MS. PACIK: And now Eversource three months  
9           later is saying basically yeah, there's, you  
10          know, we've identified these potential projects  
11          out there for either NPT or for our wind  
12          project, and I'm trying to identify whether any  
13          of them would actually, whether NPT would  
14          actually be eligible for any of these.

15          PRESIDING OFFICER HONIGBERG: Have you  
16          asked them that question? Do they know the  
17          answers to these questions? Are they  
18          responsible for any of these RFPs?

19          MS. PACIK: They're experts in this field.  
20          I think it's a fair question to ask them whether  
21          or not going through, and there's not a lot,  
22          there's only three that are referenced here,  
23          whether NPT is eligible for any of these.

24          PRESIDING OFFICER HONIGBERG: Do you know

1 if NPT or I guess Hydro-Quebec actually would be  
2 eligible for any of the RFPs in the other  
3 states?

4 A (Weiss) You're asking us?

5 PRESIDING OFFICER HONIGBERG: I'm asking  
6 you that question. Yes.

7 A (Newell) I don't believe there's a --

8 PRESIDING OFFICER HONIGBERG: The question  
9 is do you know if they are eligible.

10 A (Newell) Well, the thing is, that's an  
11 ill-specified question. Eligible for what?  
12 Because they don't have a solicitation yet. And  
13 so you can't answer that question.

14 PRESIDING OFFICER HONIGBERG: What else do  
15 you want to know, Ms. Pacik?

16 MS. PACIK: Well, I want to know at least  
17 with Massachusetts we've determined or at least  
18 with Rhode Island there's no solicitation. For  
19 the Connecticut one that is out there, under  
20 Public Act 17-144 is hydro even eligible under  
21 that act.

22 A (Weiss) I don't know. I guess the other thing  
23 to point out --

24 PRESIDING OFFICER HONIGBERG: The answer



1           you gave is I don't know. What do you want to  
2           add to that answer besides I don't know.

3           A       (Weiss) Asking me?

4                       PRESIDING OFFICER HONIGBERG: Yes.

5           A       (Weiss) I was going to say that there's  
6           confusion between the Massachusetts RFP being a  
7           precondition and the statement that some sort  
8           of, you know, procurement to provide clean  
9           energy might be necessary, and I think those  
10          things can be somewhat separated.

11                      PRESIDING OFFICER HONIGBERG: I think  
12          you're right, but I'm going to ask you not to  
13          guess at what the questioners want to know and  
14          just stick to the question. If you know the  
15          answer, give an answer. And if you don't know  
16          the answer, say you don't know. Okay?

17                      Sorry. I'm being testy with you, and I  
18          shouldn't be testy with you. I'm sorry. Ms.  
19          Pacik.

20                      MS. PACIK: Thank you.

21          BY MS. PACIK:

22          Q       So going back to Mr. Quinlan's statement that  
23          NPT would be built or he believes NPT would be  
24          built even if there was no solicitation, I'd

1 like to go to page 10 of this document.

2 And along the same line later on one of the  
3 investors asked, it was Mr. Paul Pattison, he  
4 asked, right, so you would think that it would  
5 be part of the value that the Project would  
6 provide. So it seemed kind of -- oh, sorry.  
7 I'm reading the wrong one. Going down a little  
8 bit. Where it's orange.

9 It says okay. And then you mentioned that  
10 if the Massachusetts RFP doesn't happen, you  
11 feel there's enough opportunity out there which  
12 makes sense for the value of the Project. But  
13 I'm just wondering. Do you think that the  
14 Project would proceed in the absence of some  
15 sort of contractual setup such as the  
16 Massachusetts RFP or some other state sort of  
17 sponsor program or that there's enough  
18 confidence that you just simply proceed with the  
19 Project and hope to get something regardless, if  
20 you follow me.

21 And the response was, I follow you, Paul.  
22 I think where we are right now is we think our  
23 project has all the attributes that it will be  
24 the winning project in this RFP, and if for some

1 reason we don't win this RFP, we'll take a  
2 pause, we'll take a look, and we'll look at  
3 where the other states are in those RFPs and in  
4 that process, and we'll make that decision at  
5 that time.

6 So in terms of where we stand today and  
7 what we just saw, have you seen anything today  
8 that Eversource has committed to constructing  
9 the Project if it does not win the Mass. RFP or  
10 some other solicitation?

11 A (Weiss) No.

12 Q Okay. In terms of selling capacity, Attorney  
13 Pappas earlier showed statements that  
14 Hydro-Quebec has not committed to selling  
15 capacity on the line, and I want to just focus  
16 on a question on that particular issue.

17 Have you seen anything to date where  
18 Hydro-Quebec has committed to actually enter and  
19 participate in the capacity energy market?

20 A (Newell) Can you restate your question? Because  
21 I don't know about capacity energy market.

22 Q Sorry. That was probably a poorly worded  
23 question.

24 Have you seen anything to date that

1 Hydro-Quebec has made a commitment to even offer  
2 in the Capacity Market?

3 A (Newell) Haven't seen anything.

4 Q And based on the Mass. RFP, is it your  
5 understanding that that RFP does not require  
6 Hydro-Quebec to offer into the Capacity Market?

7 A (Newell) I believe that's the case, yes.

8 Q You made a statement earlier that Scenario  
9 number 4 in your report is more likely to occur  
10 based on the bids that you saw in the Mass. RFP.  
11 Can you explain that further?

12 A (Weiss) I'm not sure whether we made that  
13 statement. So I'm not sure. We'd have to go  
14 back to -- do we say that in our --

15 Q No. You said it today. I think you had  
16 mentioned that based on the number of bids that  
17 you saw in the Mass. RFP that you thought that  
18 it supported at least in some form scenario  
19 number 4 which was that the NPT would displace  
20 competing clean energy products providing no  
21 energy market benefits.

22 A (Weiss) So I think, I'm not entirely sure what  
23 precisely we said, but the general point is that  
24 there seems to be a desire by Massachusetts to

1 procure a certain amount of clean energy, and  
2 that sort of procuring that clean energy from  
3 Northern Pass is one avenue for Northern Pass to  
4 get revenues for its clean energy. But the  
5 desire to procure clean energy by Massachusetts  
6 is not limited to procuring it from Northern  
7 Pass. There's this RFP out there. There are a  
8 certain number of bids that have been entered.  
9 We don't know how they will evaluate those bids.  
10 We don't know whether Northern Pass will be the  
11 winner or the only one that would be deemed  
12 passing whatever economic benefit tests the  
13 evaluators will apply. But at least it suggests  
14 the possibility that if Northern Pass doesn't  
15 win or even if Northern Pass didn't bid, some  
16 other project might be chosen. It's not for a  
17 lack of proposals to produce and provide this  
18 clean energy that would, you know, as an  
19 alternative to providing that clean energy over  
20 Northern Pass.

21 Q Okay. Thank you.

22 I'd like to now turn to Joint Muni Exhibit  
23 307, and this is a study that I think Attorney  
24 Birchard had referenced and was referenced in

1 the article that she showed you during her  
2 questioning. And are you aware that this,  
3 you're familiar or you've seen, you're aware  
4 that this study exists, is that right?

5 A (Weiss) I think we would say yes.

6 Q And you understand that this study was prepared  
7 by ESAI Power, LLC, and it was done to analysis  
8 greenhouse gas emissions for the Granite State  
9 Power Link Project? Are you familiar with that  
10 generally?

11 A (Newell) Yes.

12 Q Okay. If we go to the last page of this report,  
13 what I have at the back of it is the summary of  
14 the report. And in the summary, and I'm not  
15 going to read all of this, but it generally  
16 states the opinion of ESAI that the existing tie  
17 line capacity from Quebec is sufficient to allow  
18 delivery of all energy, and as a result any  
19 increase in delivery of hydropower from Quebec  
20 to New England would be a diversion. And  
21 basically, it states that the offset of  
22 reductions in greenhouse gas emissions in  
23 Massachusetts by an increase in emissions  
24 outside Massachusetts is defined as leakage.

1 Have you ever heard of that term leakage before?

2 A (Weiss) Yes.

3 Q Can you explain what that means?

4 A (Weiss) It just means that, I mean, we've  
5 already described it although we didn't call it  
6 that. It means that emissions reductions in one  
7 area are basically leading to emissions  
8 increases in some other area which partially or  
9 entirely offset the emissions reductions in the  
10 first place.

11 Q Okay. So, now, this report states that their  
12 finding was that diversion would occur, and you  
13 understand that LEI has rendered the opinion  
14 that diversion would not occur. Is that  
15 correct?

16 A (Weiss) So I'm not sure whether LEI says  
17 anything about diversion. They just estimate  
18 greenhouse gas emissions reductions that  
19 essentially assume displacing emissions in the  
20 destination market without creating additional  
21 emissions elsewhere.

22 Q So the LEI opinion, would it be fair to say that  
23 it assumes that Hydro-Quebec will not be  
24 diverting capacity to New York, and, instead,

1 for example, sending it to Massachusetts?

2 A (Newell) I don't think LEI described what was  
3 happening at the source really or possibly any  
4 diversion from other markets. I don't think  
5 they were describing other markets. In order  
6 for their analysis to make sense, you have to  
7 believe that there's incremental clean energy.  
8 In order for their emissions analysis to make  
9 sense from a global perspective, you'd have to  
10 believe that there's incremental clean energy.  
11 That is, it's not just diversion.

12 Q Because I think that -- let me just go back to  
13 your report which it says, and this is in your  
14 original report under the introduction which is  
15 XII, or page 12, and it states the net  
16 greenhouse gas emission savings of NPT could be  
17 substantially less under two possible  
18 circumstances. One is if Hydro-Quebec does not  
19 increase its hydro generation to serve New  
20 England but instead diverts power that would  
21 otherwise serve New York or elsewhere and the  
22 power is replaced with fossil-fired generation.

23 LEI assumed that that would not occur; is  
24 that right?



1 A (Newell) Well, implicitly maybe, but I mean they  
2 didn't have an explicit assumption about that,  
3 but, again, that assumption that you just  
4 described is consistent with their emissions  
5 analysis being correct on a global basis.

6 Q Okay. And I understand that you also stated  
7 that you hadn't seen anything in any of the  
8 documents or the report to support that implicit  
9 statement; is that correct?

10 A (Newell) To us I think it remains unclear what  
11 resources would be behind Northern Pass and to  
12 what extent they would be incremental from new  
13 dam or something else. That, I think that  
14 remains unclear to, I think, all of us.

15 Q Okay. So is the answer to that question yes,  
16 you have not seen anything to support that  
17 statement?

18 A (Newell) Can you if go back to the beginning of  
19 the question? To support the statement? Which  
20 statement?

21 Q Well, so the answer is that it's correct that  
22 you haven't seen anything to at least support  
23 the implicit determination that diversion of  
24 power from New York or elsewhere would not

1 occur.

2 A (Weiss) Yes. The answer is yes.

3 A (Newell) Yes. Sorry. It just takes a little  
4 thinking, but yes.

5 Q I'm sure it's my fault. Thank you very much.

6 PRESIDING OFFICER HONIGBERG: I think Mr.  
7 Cote is up next.

8 MR. COTE: I'm ready. I will need somebody  
9 to flip on Apple TV.

10 PRESIDING OFFICER HONIGBERG: While he's  
11 connecting, off the record.

12 (Discussion off the record)

13 **CROSS-EXAMINATION**

14 **BY MR. COTE:**

15 Q Good afternoon, Drs. Weiss and Newell. I am Bob  
16 Cote with the Deerfield Abutter Group. And I  
17 have just a few areas of discussion that I'd  
18 like to review with you.

19 I'd like to start with this is a transcript  
20 from Day 15, the morning, with Ms. Frayer, and  
21 the topic of discussion was FCA 11, and I guess  
22 you're probably familiar with the details, but  
23 Ms. Frayer's report which was initially issued,  
24 I believe, just a few weeks before the results

1 of the Auction predicted a Clearing Price, I  
2 believe, of about \$6.30 a kilowatt month. And  
3 then the, when the Auction actually took place I  
4 believe the Clearing Price was about \$5.30.

5 Does that sound about right to you?

6 A (Newell) That is exactly right on the actual  
7 price. On what it was in the report, I can't  
8 remember precisely, but also I think it might  
9 have been in the redacted section of the report.

10 Q Okay. Well, anyway. As you can see from the  
11 testimony that's here before you, Ms. Frayer  
12 does say I think it's okay to say that there was  
13 a dollar difference between her projection and  
14 the actual price. And so we followed up on that  
15 a little more, and the explanation for the  
16 difference was that there was an unexpected 200  
17 to 240 megawatts of power that remained in the  
18 system, I believe unexpectedly.

19 So I was just a little surprised that the  
20 Clearing Price could be that dependent on a  
21 difference of, what seems like a relatively  
22 small amount of energy difference in the market,  
23 and I was wondering what your perspective would  
24 be. Can 200, 240 megawatts of difference

1 trigger that big of a difference in the Clearing  
2 Price?

3 A (Newell) Not the way you said it as triggered.  
4 I think it's a fact that the price will clear on  
5 or approximately on the demand curve in the  
6 Auction, and on that demand curve it's true that  
7 if you clear, that clearing about 200, 240  
8 megawatts more corresponds to a fairly large  
9 price job drop. It just does. That's just a  
10 fact. Now, what I said was not quite correct  
11 that you said, 240 triggering, it's not just the  
12 240 entered the Auction. There's a lot of  
13 moving parts here. It was actually more like  
14 1400 megawatts, over 1400 megawatts entered the  
15 Auction and about 1100 megawatts left, and you  
16 know, if you look at what actually cleared. And  
17 on net, it was something in this ballpark, call  
18 it 240 more than I think in the prior auction  
19 and than perhaps some of the analysts including  
20 maybe LEI was expecting.

21 Q So we went on this topic a little bit more  
22 talking about the effect of photovoltaics on the  
23 market, and I think Mr. Anderson talked about  
24 this a little bit this morning about behind the

1 meter, but anyway, the communication with Ms.  
2 Frayer, I think where I was going with this was  
3 wondering how much effect unanticipated entry of  
4 behind-the-meter photovoltaics could have on the  
5 market, on the forward capacity market, because  
6 I would say indirectly behind-the-meter  
7 photovoltaics, wouldn't they affect the  
8 installed capacity requirement?

9 A (Newell) Yes. Yes, they do, and the specific  
10 effect that Mr. Anderson was talking about  
11 before was that there are more photovoltaics  
12 understood to be coming on now lowering the net  
13 demand, but I actually thought about it a little  
14 bit more since we talked, and it's going to be  
15 easy to think, you know, so they say there's  
16 about 400 megawatts less demand than they  
17 thought. That's just about one year's worth of  
18 load growth.

19 So it's not fundamentally different from  
20 anything we analyzed. It's just when the  
21 effects occur, when prices would rise absent  
22 Northern Pass and Northern Pass keeps prices low  
23 for a little while, that just all occurs about a  
24 year later. But unless you were talking about

1 something really different, you know, it doesn't  
2 fundamentally change the analysis. Unless you  
3 were talking about much, much, more, a bigger  
4 change than that. Like everyone putting a solar  
5 panel on their roof.

6 Q Let me ask the question a slightly different  
7 way. If the difference in anticipated capacity  
8 when Ms. Frayer did her report, if the 200/240  
9 megawatt difference was part of the  
10 miscalculation in the Clearing Price, wouldn't a  
11 similar thing happen if somebody misestimated by  
12 a few hundred megawatts the photovoltaic  
13 installations and effect on the ICR, wouldn't  
14 that have a similar effect in the, you know,  
15 Clearing Prices and future Auctions?

16 A (Newell) Yeah, it may. I mean, I think many,  
17 many analysts were surprised by many things that  
18 have happened in the last Auctions, including  
19 the photovoltaics. They were surprised in FCA 8  
20 by a bunch of coal plants down in Brayton Point  
21 leaving. They were surprised in FCA 10 of 1400  
22 megawatts of new supply coming in and changes in  
23 the net load, yeah, that's another surprise,  
24 too. We may see prices different from what we

1 expected.

2 I just need to remind you, though, that  
3 what we're ultimately asking here are how are  
4 prices with Northern Pass versus without  
5 Northern Pass, and, you know, it's things  
6 change, but it's still, that's still ultimately  
7 what we're looking at even though, and, you  
8 know, if we're trying to focus the price in any  
9 given year, you'll probably get it off.

10 Q Well, I believe that the Base Case from the  
11 London Economics report forecasts that the  
12 Clearing Price is going to be increasing at  
13 least for a few years. Is that accurate?

14 A (Newell) Yes.

15 Q So I guess what I'm trying to understand is  
16 could the Base Case actually be different more  
17 along the lines of what Mr. Anderson was  
18 suggesting, and that we have unexpected levels  
19 of PV entry into the market and instead of the  
20 Clearing Prices increasing they stay more or  
21 less stable where they are now.

22 A (Newell) It's possible that prices would just  
23 stay in the -- we're right now in a low capacity  
24 price regime because there's excess capacity,

1 and I think what you're suggesting is that if we  
2 have a lot of photovoltaics maybe we keep having  
3 a surplus for a long time. We don't have load  
4 growth sort of growing out of that surplus. And  
5 then you know, prices will never go up even  
6 without Northern Pass so there wouldn't be any  
7 benefit.

8 But you can, to believe that, you'd also  
9 have to believe there won't be retirements over  
10 time, and we, you know, we already have, we are  
11 using in our analysis ISO New England's latest,  
12 not the latest that Bruce just showed, but the  
13 second latest. It's close. It's just, it's 400  
14 megawatts behind that. So, yes, you could point  
15 scenarios where the value was lower for sure.  
16 But, you know, it's not like we have some new  
17 piece of information here that fundamentally  
18 changes the analysis, you know, the few hundred  
19 megawatts. It just, because you have load  
20 growth and you've got some retirements. You  
21 eventually are going to have the price probably  
22 rising. I could be wrong. And we have it, in  
23 our analysis we have it rising a few years later  
24 than LEI does, largely because we included



1 energy efficiency in our forecast. Anyways,  
2 these are some of these uncertainties. It's  
3 just that there's not one little thing that  
4 makes me think, oh, those benefits go away just  
5 because of that factor.

6 Q It seems like if the forward capacity market or  
7 the Clearing Price stays low, or even if it's  
8 off somewhat from the London Economics  
9 projections, that still represents or their  
10 forecast, the Forward Capacity Market represents  
11 about 90 percent of the savings. So having a  
12 large forward capacity market value, it gives  
13 you like a bigger piece, a bigger pie to cut  
14 savings out of, but if the pie is a lot smaller  
15 because the forward capacity market isn't  
16 increasing in value, then isn't the potential  
17 benefit from savings in that market also  
18 reduced?

19 A (Newell) So it's probably just a question of  
20 timing. I mean, do you really believe load will  
21 stay where it is and there won't be any  
22 retirements forever? I mean, so I think my  
23 answer to your question is no. It's probably  
24 just a question of timing.

1           So, for example, if we were to redo the  
2           analysis and put in another thousand megawatts  
3           of behind-the-meter photovoltaics, we would have  
4           probably a little bit lower benefits, but mostly  
5           it would be the same thing happening a few years  
6           later. Northern Pass, absent Northern Pass,  
7           prices would still eventually rise, just a  
8           little bit later. And Northern Pass would hold  
9           down those prices for -- this is what it does.  
10          It holds, it would hold them down if it clears.  
11          It would hold them down for approximately three  
12          to 4 years, four or so years. Why four years?  
13          Because it's about 1000 megawatts. That's about  
14          four years worth of load growth. So what it  
15          does is delay the price rising. Eventually.  
16          Whenever that may be.

17        Q     Okay. Just maybe a little bit more of a general  
18              question. We've talked about the model. Is the  
19              model that you use the same as the model that  
20              London Economics uses?

21        A     (Newell) No.

22        Q     Okay. I guess that's the end of my questioning.  
23              Thank you.

24                       PRESIDING OFFICER HONIGBERG: That is all I

1 have for Intervenors who have questions for the  
2 Panel. Did we miss anybody? All right. You  
3 want to take a ten-minute break, Mr. Needleman,  
4 before you get started?

5 MR. NEEDLEMAN: Sure.

6 PRESIDING OFFICER HONIGBERG: All right.

7 (Recess taken 3:20 - 3:36 p.m.)

8 PRESIDING OFFICER HONIGBERG: Mr.  
9 Needleman, you may proceed.

10 MR. NEEDLEMAN: Thank you.

11 **CROSS-EXAMINATION**

12 **BY MR. NEEDLEMAN:**

13 Q Why don't we, actually, what I'd like to do is  
14 focus, first of all, I'm Barry Needleman. I  
15 represent the Applicant. We've met before.

16 What I'd like to do is focus right in on  
17 your Prefiled Testimony and your report. What I  
18 really want to do is walk through your specific  
19 opinions in those documents. And so I want to  
20 start with Counsel for the Public's Exhibit 142  
21 which was your February 10th, 2017, updated  
22 Prefiled Testimony, and we've highlighted page  
23 2, lines 14 through 17, where you describe the  
24 purpose of your testimony. And you say that

1 Brattle focused on NPT's potential impact on the  
2 New England wholesale energy and capacity  
3 markets and resulting savings for New Hampshire  
4 electric customers. We also analyzed the value  
5 of potential greenhouse gas emission reductions  
6 from NPT, correct?

7 A (Weiss) Yes.

8 Q And so we've really got three topics here I want  
9 to go through. Wholesale energy market  
10 benefits, capacity market benefits, and  
11 greenhouse gas emission reduction benefits. And  
12 I want to preface it by saying that I'm going to  
13 do my best to avoid confidentiality issues, and  
14 I don't believe I need to go into confident  
15 session. I will dance around that on occasion.  
16 If you feel like I'm asking you anything that  
17 requires that, let's pause, let me know and  
18 we'll see what we can do to fix that. Okay?

19 So let's first start with wholesale energy  
20 market benefits, and, again, Exhibit 142 which  
21 is your Prefiled Testimony, page 5, line 16.

22 You say with respect to energy market  
23 impacts, we adopted LEI's analysis because we  
24 found that it probably captures the key

1 characteristics of the New England energy  
2 market. And then going on to lines 18 and 19  
3 you continued, we did, however, make adjustments  
4 for differences in the scenarios we constructed.  
5 Is that right?

6 A (Newell) Right.

7 Q And then on April 17th, 2017, you updated your  
8 energy market analysis with your supplemental  
9 report, correct?

10 A (Newell) We did.

11 Q And that Supplemental Report is Counsel for the  
12 Public Exhibit 144, and I've called up page 40,  
13 the top of that page, in that Supplemental  
14 Report. And what you say here is, "As in our  
15 original report, we adopt LEI's analysis of  
16 energy market benefits since we find their  
17 methodology and results to be reasonable.

18 You continue on a little bit later, "Here  
19 we adopt LEI's updated results submitted 6 weeks  
20 after our original report in which the average  
21 energy market benefits are nine million per year  
22 in 2020 dollars over a 11-year time period,  
23 correct?

24 A (Newell) Correct.

1 A (Weiss) Correct.

2 Q And then on page 41, third paragraph,  
3 highlighted here, you say, "One reason that  
4 we're comfortable adopting the higher estimate  
5 is that even this higher estimate could  
6 understate energy market impacts by not  
7 accounting for occasional extreme conditions.  
8 Under extreme weather conditions or common mode  
9 failure of resources, energy prices become more  
10 sensitive to changes in supply and NPT is likely  
11 to have more value."

12 So this is actually one of the points you  
13 were making this morning about these unusual  
14 weather events; is that correct?

15 A (Newell) That's exactly it.

16 Q And you actually believe that LEI's energy  
17 market analysis could be conservative, correct?

18 A (Newell) I can't answer that in isolation. The  
19 thing is LEI presented the extreme weather as a  
20 separate piece. If you were to ignore that and  
21 somehow not include it at all, and actually I  
22 think they did not include it in their sum of  
23 benefits, that would make the energy market  
24 analysis alone probably conservative, yes.

1 Q Fair enough. And you didn't otherwise do any  
2 independent energy market analysis, right?

3 A (Newell) Correct.

4 Q Now, back to Exhibit 142, your updated Prefiled  
5 Testimony, I want to turn to greenhouse gas  
6 emissions. On page 6, line 20, you said, "One  
7 of the major potential benefits of NPT is that  
8 it could substantially lower greenhouse gas  
9 emissions from the New England power sector,"  
10 right?

11 A (Weiss) Correct.

12 Q And then in your report, also 142, on page 12,  
13 you said, "We generally accept as reasonable  
14 LEI's estimate that NPT would reduce greenhouse  
15 gas emissions by approximately 3.3 million  
16 metric tons per year," right?

17 A (Weiss) Could you repeat your question?

18 Q Yes. I thought it was straightforward.

19 A (Weiss) It just took me a while to read. That's  
20 all.

21 Q I've read what you said here in the yellow  
22 highlighting which is that you generally accept  
23 their estimate as reasonable, right?

24 A (Weiss) I think it's important to also note that

1 we continue, next paragraph has relevance for  
2 that statement. So we qualify that general  
3 agreement in the paragraph below.

4 Q And you also say in the next sentence that you  
5 adopt the estimate except in your Scenario 4,  
6 right?

7 A (Weiss) That is correct, but that that is still  
8 not the full testimony. So the following two  
9 sentences are relevant.

10 Q Understood. But just to be clear, you're not  
11 changing your testimony on that issue, are you?

12 A (Weiss) No. We're not changing our testimony,  
13 but I point out that that statement is followed  
14 by other relevant statements.

15 Q No. I understand that. But there was some, it  
16 seemed like confusion about positions you were  
17 taking on greenhouse gasses, and I just want to  
18 be clear. You stand by the statements that we  
19 have here in your report, correct?

20 A (Newell) Yes, including all the qualifiers which  
21 they don't only apply to Scenario 4.

22 Q I understand the qualifiers. I just want to be  
23 certain that you aren't changing what you put in  
24 here based on what you've said here today?



1 A (Weiss) Yes. That's correct.

2 A (Newell) I believe everything we've said today  
3 is consistent with what's in the report.

4 Q Okay. Then back to Exhibit 142 which is your  
5 updated Prefiled Testimony. Page 2, line 26.  
6 You're asked the question -- could we go to the  
7 question, Dawn? I'm looking at page 2. Line  
8 26. There we go.

9 So the question you're asking is how did  
10 LEI approach its analysis of the NPT's impacts  
11 to New England's wholesale electricity markets.  
12 Do you see that?

13 And you answer the question and it carries  
14 over to the next page, and then you're asked a  
15 followup question which is what are your  
16 conclusions regarding LEI's analysis. So when  
17 you answer that next question, what you're  
18 answering is LEI's analysis, what you're  
19 answering is with respect to LEI's analysis  
20 regarding wholesale electric market benefits.  
21 Correct? It follows from the prior question.

22 A (Weiss) Could you scroll back to actually let us  
23 read the full question and answer that's prior  
24 to this?

1 Q Sure. The prior question is right on the bottom  
2 of the page.

3 A (Weiss) Yes. Got it.

4 Q Are we on the same page?

5 A (Weiss) Yes. Literally.

6 Q Just wanted to keep this focused.

7 So in line 11 which is the highlighting,  
8 you say, "We agree with LEI's overall premise  
9 but find that they did not address several  
10 important uncertainties that could reduce NPT's  
11 impacts, especially in the capacity market which  
12 accounts for 90 percent of LEI's estimated  
13 benefits."

14 So what I want to do now is focus on this  
15 disagreement that you have with LEI that we seem  
16 to have spent so much time on today. And I want  
17 to start by saying or asking you, LEI modeled  
18 the capacity market benefits to New Hampshire  
19 and found them to be about 60 million in nominal  
20 dollars, correct?

21 A (Newell) I believe that was the annual average  
22 over 10 or 11 years or something in nominal  
23 dollars.

24 Q And then you filed your Supplemental Report on

1 April 17th which is Counsel for the Public  
2 Exhibit 144, and I want to turn to that, and I  
3 want to look at page 42, table 10. We have that  
4 up on the screen. And these are the four  
5 scenarios that you modelled with capacity  
6 benefits to New Hampshire.

7 A (Newell) Can you hold on just a second? You're  
8 referring to, I'm wondering why I have a  
9 slightly different page number.

10 MR. PAPPAS: Mr. Chairman, one moment.  
11 Barry, I think you keep referring to 144, and I  
12 think it's 145. That might be throwing them  
13 off.

14 MR. NEEDLEMAN: Sorry.

15 Q How about we refer to your, just call it your  
16 April 17th Supplemental Report, and I'm focusing  
17 on the redacted version.

18 A (Weiss) Right.

19 Q I'm looking at page 42, Table 10, which we have  
20 up on the screen. Let me know when you're  
21 ready.

22 A (Newell) Ready.

23 Q Okay. So what we see here is that you modeled  
24 four scenarios with capacity benefits to New

1 Hampshire, and we're looking at that second  
2 column, and under your model they range from 26  
3 million on the top, most beneficial scenario,  
4 down to zero on the bottom scenarios, right?

5 A (Newell) Right.

6 Q And with respect to that \$60 million LEI figure  
7 that we talked about a moment ago, would you  
8 accept that that represents 39 million in real  
9 2020 dollars? Does that sound right to you? I  
10 will tell you that's a calculation that LEI did  
11 and provided to the Site Evaluation Committee  
12 pursuant to its request on June 21st so I can  
13 get it to you if you want. But for purposes of  
14 this discussion, would you accept that it's 39  
15 million?

16 A (Newell) In capacity benefits?

17 Q No. 39 million in real 2020 dollars.

18 A (Newell) Right, but you're talking about the  
19 only the capacity category, not energy?

20 Q Yeah, I'm talking about LEI's \$60 million  
21 figure.

22 A (Newell) Yes. That sounds right, and I'll  
23 accept it, subject to check.

24 Q And when we look at what you did here, part of

1 the work you did involved performing a  
2 sensitivity analysis on Scenarios 1 and 2,  
3 right?

4 A (Newell) Right.

5 Q And the results of your sensitivity analysis are  
6 shown in the parentheses below the numbers in  
7 bold, correct?

8 A (Newell) That's right.

9 Q So, for example, under Scenario 1, your  
10 sensitivity analysis shows the potential for  
11 Capacity Market savings as low as 15 million and  
12 as high as 58 million per year, correct?

13 A (Newell) That's right.

14 Q So under your sensitivity analysis for this  
15 first scenario, there's actually a potential for  
16 higher Capacity Market benefits than LEI modeled  
17 using those 2020 dollars, correct?

18 A (Newell) Yes. We also said that that is not  
19 what we think is likely, but it is one of the  
20 cases that we tested and showed that that would  
21 be possible.

22 Q Well, when you say it's not what you said is  
23 likely, I thought you said in your report in  
24 several locations that you were not taking a

1 position about whether any one scenario was more  
2 or less likely than any other scenario.

3 A (Newell) I think you're confusing scenarios and  
4 sensitivity.

5 Q I understand that, but for purposes of  
6 scenarios, that's your position, correct?

7 A (Newell) Not exactly. We didn't put  
8 quantitative probabilities on them, and I  
9 believe we did say in our report that we think  
10 Scenario 2 is more likely than Scenario 1. And  
11 as for the sensitivities, when you're pointing  
12 out the extreme value there, we talked about how  
13 that could be plausible, but we don't think it's  
14 as likely. We're talking about, that higher  
15 number comes with what we call an extreme  
16 assumption about how much it costs a new entrant  
17 to be willing to enter the market.

18 Q Mr. Weiss, did you have a different opinion  
19 because while Mr. Newell was saying no, you  
20 seemed to be shaking your head yes?

21 A (Weiss) No. I don't have a different opinion.

22 Q Okay. So I want to talk about a couple of the  
23 issues that Mr. Pappas raised this morning with  
24 you. With respect to Figure 18 from LEI's

1 report, that was Applicant's Exhibit 102, if we  
2 can call that up, Dawn?

3 I think, Mr. Weiss, these questions were  
4 directed to you. Mr. Pappas asked you about the  
5 Ontario Trade Agreement which is number 4 on  
6 this list; do you remember that?

7 A (Weiss) I do.

8 Q This is an agreement between the government of  
9 the Province of Quebec and the government of the  
10 Province of Ontario, right?

11 A (Weiss) I believe so.

12 Q And isn't it correct that these two provinces  
13 could agree to extend this agreement beyond its  
14 2023 expiration date?

15 A (Weiss) I assume they could.

16 Q In fact, you have no information one way or the  
17 other about that, right?

18 A (Weiss) No, I don't, but I looked at what is  
19 stated in the source that is cited in that  
20 document, and it states nothing about any  
21 extension. Just states that the agreement ends  
22 in 2023.

23 Q It's actually silent about that, right?

24 A (Weiss) No, it says it ends in 2023.

1 Q Right, and it's silent about the possibility of  
2 an extension.

3 A (Weiss) Sure.

4 Q And let's look at Footnote 40 on page 30 of  
5 LEI's report. Sorry, Dawn. I don't have the  
6 Bates number.

7 So in Footnote 40, LEI says Hydro-Quebec's  
8 Strategic Plan commits to increasing the  
9 capacity of existing assets by 500 megawatts by  
10 2025, correct?

11 A (Weiss) That's what it states in the footnote.  
12 I don't have the Strategic Plan in front of me  
13 so I don't know whether it states it in the  
14 Strategic Plan right now.

15 Q If we assume that the Ontario/Quebec agreement  
16 doesn't get extended, then this intention of HQ  
17 to increase their capacity by 500 would offset  
18 that, wouldn't it?

19 A (Weiss) So it's hard to tell for me without  
20 actually seeing what it says in the Strategic  
21 Plan.

22 Q Did you read the Strategic Plan?

23 A (Weiss) I did.

24 Q Do you recall seeing this in there?



1 A (Weiss) I recall seeing 500 megawatts in there,  
2 but I don't recall whether there are any  
3 specifics around the 500 megawatts.

4 Q But certainly premised on this statement in  
5 LEI's report, it would offset that, wouldn't it?

6 A (Weiss) So, again, it's hard to tell without  
7 seeing what those 500 megawatts are specifically  
8 referring to. And to just explain, right? So  
9 in LEI's Figure 18, there are other resources  
10 that get added.

11 Q That's not what I'm talking about.

12 A (Weiss) So without looking at the Strategic Plan  
13 I don't know whether those 500 megawatts in the  
14 Strategic Report refer to some of the resources  
15 that are in Figure 18 That's all I'm saying.

16 Q Maybe we could do it this way. Would it  
17 surprise you to learn that it's LEI's opinion  
18 that those 500 megawatts based on this document  
19 would be offset?

20 A (Weiss) Can you repeat that question?

21 Q Would it surprise you to learn based on the HQ  
22 Strategic Plan that it is LEI's opinion that if  
23 the Ontario Trade Agreement were discontinued  
24 those 500 megawatts would be offset based on

1 HQ's representation?

2 A (Weiss) I don't want to have you repeat it  
3 again, but I'm not really sure I understand your  
4 question.

5 Q It's LEI's opinion that if those 500 megawatts  
6 in the Ontario agreement were discontinued, they  
7 would be offset by HQ's intention to increase by  
8 500 megawatts as expressed here. Would it  
9 surprise you that that is LEI's opinion on this  
10 issue?

11 A (Weiss) Are you stating it as LEI's opinion? I  
12 don't know whether that makes any difference  
13 whether I'd be surprised or not.

14 Q It's a simple question. Yes or no.

15 A (Weiss) I don't know whether I'd be surprised or  
16 not.

17 Q Fair enough. And if the agreement is extended  
18 beyond 2023 and HQ carries through on its stated  
19 commitment to increase its capacity by 500  
20 megawatts, then in reality there would actually  
21 be an additional 500 megawatts of capacity  
22 available beyond what was calculated by LEI in  
23 Table 18. Is that correct?

24 A (Weiss) So I think you're constructing a

1 hypothetical, and I think I can agree to a  
2 hypothetical that resources might be added in an  
3 addition to what is included on Figure 18.

4 Q Okay. Now, Mr. Pappas also showed you Counsel  
5 for the Public's Exhibit 597, and I think we  
6 looked, Mr. Weiss, at your translation. And  
7 Mr. Pappas asked you about the line that states  
8 commitments to third parties. And asked you  
9 whether LEI had included this in its calculation  
10 of HQP's available surplus capacity. Do you  
11 remember talking about that?

12 A (Weiss) I do remember talking about that.

13 Q And you thought that LEI did not include this,  
14 right?

15 A (Weiss) The 1275, I was not able to find that  
16 here since Figure 18 as I read it, only includes  
17 HQP's domestic commitments which have two  
18 components, commitments to Hydro-Quebec  
19 Distribution, and on that table on line 11 in  
20 Figure 18, a commitment for 94 megawatts to LCHM  
21 and so it's not exactly overlapping, but this  
22 exhibit here has the commitments to HQD as 1139  
23 and it has 1275 megawatts of commitments to  
24 other parties so that's clearly more than 94. I

1 was not able to find the difference between 1275  
2 and 94 in Figure 18.

3 Q And I believe that you said this morning, and I  
4 think it's reflected on your translation, that  
5 this is a projection of available surplus  
6 capacity in the year 2016/2017 only. Is that  
7 right?

8 A (Weiss) That's the projection for the winter of  
9 2016/17. That's correct.

10 Q So it's not a projection of capacity looking  
11 forward. Only for this year, right?

12 A (Weiss) That is correct.

13 Q And I think you correctly qualified that LEI's  
14 analysis was looking at available surplus  
15 capacity in 2021 and beyond, right? Remember  
16 saying that?

17 A (Weiss) That is correct.

18 Q So this Exhibit 597 doesn't account for changes  
19 that have happened or planned since this  
20 document was filed, correct?

21 A (Weiss) That is also correct.

22 Q And again, would it surprise you that, if asked,  
23 Ms. Frayer would say that this number includes a  
24 number of commitments included in her Table 18,

1 and it also includes commitments which have  
2 expired, and, therefore, wouldn't belong in  
3 Table 18.

4 A (Weiss) So far you're speaking about commitments  
5 and not about resources, but generally speaking,  
6 that is potentially true.

7 Q Okay.

8 A (Weiss) That it includes commitments that may be  
9 already incurred but are not reflected in  
10 2016/17 or that exist in commitments in 2016/17  
11 may not exist in 2021.

12 Q Are you aware that it includes a contract with  
13 Vermont joint owners which has since expired?

14 A (Weiss) That what includes?

15 Q Your numbers.

16 A (Weiss) These are not my numbers.

17 Q The numbers in this exhibit.

18 A (Weiss) I am not aware what is included in the  
19 1275 since the source document does not spell  
20 out what is included.

21 Q So certainly if it included a contract with an  
22 entity which has since expired, that would be  
23 relevant for this analysis, wouldn't it?

24 A (Weiss) It could be relevant.

1 Q And how about if it also includes forward sales  
2 of capacity which have already been delivered  
3 and are, therefore, complete? Wouldn't that be  
4 relevant to this analysis?

5 A (Weiss) Yes, I'm not sure I fully understand  
6 what you mean.

7 Q I mean, if the table that you presented here in  
8 your translation contained representation of  
9 capacity sales in this time period which have  
10 since been complete and no further obligation  
11 exists going forward, that would certainly be  
12 relevant in relation to the analysis that Ms.  
13 Frayer did looking at 2021, right?

14 A (Weiss) That would be relevant.

15 Q And wouldn't it also be relevant if there are  
16 commitments here which LEI actually did include  
17 in its table such as, for example, on lines 11  
18 and 14?

19 A (Newell) I'm not sure either of us understood  
20 your question. Could you please repeat it?

21 Q Sure. I think the premise underlying some of  
22 the testimony was that you could not correlate  
23 what you saw on this exhibit that you translated  
24 with the table that Ms. Frayer presented, and my

1 question to you is if it turns out that there is  
2 a correlation, for example, if items 11 and 14  
3 on Ms. Frayer's table do correlate, that would  
4 also be relevant to this analysis, wouldn't it?

5 A (Weiss) What do you mean by correlate?

6 Q I mean, if items 11 and 14 on her table actually  
7 are included in these numbers. You said you  
8 couldn't determine whether they were included.  
9 If they actually are included, that would  
10 certainly be relevant to the analysis, wouldn't  
11 it?

12 A (Weiss) So I'm sorry. I'm sort of stumped, I  
13 have to say. So those questions are  
14 complicated, and I don't know why they are.

15 Q It's a complicated topic.

16 A (Weiss) Yeah, it is. I agree. And in part this  
17 confusion or difficulty is caused by the fact  
18 that I really had a hard time breaking down  
19 Figure 18. So, in other words, the sourcing on  
20 this document is such that it is very difficult  
21 to follow what assumptions LEI actually made.  
22 And so we're going through what I did, and what  
23 this translation here represents is actually  
24 exactly the information that is contained in

1 some of the documents that LEI's report cites  
2 to, and there's nothing else in those. LEI  
3 doesn't cite to any documents specifically that  
4 would sort of provide some evidence or proof for  
5 what you now posit as hypotheticals.

6 Q Let's go on to Exhibit 277 which Mr. Pappas also  
7 showed you. And this is HQ's Strategic Plan for  
8 2016 to 2020. Do you recall looking at this  
9 document?

10 A (Weiss) Yes. That is the Strategic Plan, by the  
11 way.

12 Q Right. And he showed you page 9759 which we  
13 have up here, and quoted some language stating,  
14 quote, "The energy available to us is more than  
15 the quantity required to meet Quebec's electric  
16 needs." Do you see that? First paragraph?

17 A (Weiss) Yes, I do.

18 Q And at the top of that page, it reads, in big  
19 bold, "We have sufficient energy to supply  
20 Quebec." Correct?

21 A (Weiss) That is what it says.

22 Q Then we go to the following page. And it says  
23 "However, we need more capacity during peak  
24 periods." Right?



1 A (Weiss) That is correct.

2 Q And isn't it correct that it's HQD as in dog  
3 that's responsible for securing sufficient  
4 energy capacity to meet Quebec's demand?

5 A (Weiss) That is not what this slide says.

6 Q Well, actually this is referring to Hydro-Quebec  
7 Distribution, isn't it?

8 A (Weiss) Where does it say that?

9 Q Well, I'll ask you then. Whose responsibility  
10 is it to procuring capacity to meet Quebec's  
11 needs? It's Hydro-Quebec Distribution, right?

12 A (Weiss) That is correct.

13 Q Okay. So we do agree on that.

14 A (Weiss) But hold on. So it's unclear that this  
15 is a slide that states something specific to  
16 HQD's capacity needs. This is a Strategic Plan  
17 by Hydro-Quebec, period. And the reason why I'm  
18 pointing that out is in that document, it also  
19 speaks about the desire by Hydro-Quebec to  
20 create generating resources for export which is  
21 clearly not something that would be interesting  
22 to HQD.

23 Q Right, but HQD meets its electric needs from  
24 purchases through HQP and other independent

1 power producers, correct?

2 A (Weiss) That's correct.

3 Q So looking at this from HQD's perspective as it  
4 relates to its own needs for Quebec, that isn't  
5 necessarily reflective of HQP's perspective  
6 about overall capacity, right? They're  
7 different entities with different goals and  
8 different needs, correct?

9 A (Weiss) As you stated, that's correct.

10 Q And if you look at the same page in the blue box  
11 it says, "whether to meet the needs of the  
12 Quebec market or to seize export opportunities  
13 we intend to, and it makes a couple of points.  
14 First of all, it says bring into service the  
15 last two Romaine generating stations, 600  
16 megawatts by 2020 and related transmission  
17 facilities. And then the next box says, "and  
18 undertake new projects to increase the capacity  
19 of some of our hydroelectric generating  
20 facilities." Right?

21 A (Weiss) Yes.

22 Q And you would agree with me that LEI included  
23 Romaine in its analysis, right?

24 A (Weiss) It did.

1 Q And it discusses the 500 megawatt uprates as we  
2 pointed to previously in that footnote 30,  
3 right?

4 A (Weiss) Yes. It's helpful, by the way, to see  
5 it on the slide so yes, that's correct.

6 Q So in fact, HQP, Hydro-Quebec Production, will  
7 have more capacity soon than what's reflected in  
8 Annex C for that winter of 2016/2017, right? It  
9 makes that clear right on the slide.

10 A (Weiss) So it makes it clear that it plans to  
11 add resources relative to what's stated on the  
12 Annex C document.

13 Q Okay. Mr. Pappas also showed you Counsel for  
14 the Public Exhibit 599 which showed the cost of  
15 various contracts that HQD had entered into, do  
16 you recall that?

17 A (Weiss) Yes. I do.

18 Q And he specifically focused on a contract for  
19 500 megawatts with HQP; do you remember that?

20 A (Weiss) I do.

21 Q And I think you said that the price that HQD is  
22 paying under this capacity supply contract is an  
23 indicator of the opportunity cost for capacity  
24 sales of HQP, right?

1 A (Weiss) I believe that's what I said.

2 Q And based on the price of this one contract, you  
3 stated that the ISO New England market may not  
4 be the best market for HQP to sell its capacity  
5 surplus in the future; is that what you said?

6 A (Weiss) I think that was Sam, but, no, so I  
7 think what I said is it's an indicator of the  
8 value of capacity in Quebec recently. In 2015.  
9 And so I think I also said that I don't know how  
10 the Market Monitor would look at this, but it is  
11 a piece of information that suggests that there  
12 are opportunity costs for capacity in Quebec at  
13 this point.

14 Q Well, it sounded to me like the implication of  
15 what you were saying is that somehow this was  
16 indicative of those opportunity costs, and it's  
17 a piece of information that should be looked at  
18 to draw conclusions about those opportunity  
19 costs, right?

20 A (Newell) That's our inference, and if you look  
21 back at the Strategic Plan where you showed  
22 that, first of all, "we" is used in a lot of  
23 different ways there. Sounds like the  
24 perspective of the distribution company, other

1 places sounds like the perspective of the  
2 production company, but one of the we's said we  
3 need capacity or we're short on capacity, and no  
4 matter who that is, even if it's the  
5 distribution company, if they're going to still  
6 be buying more contracts like this one, that  
7 would suggest that -- and if it happens to be  
8 priced similarly to this one, that would suggest  
9 that HQP would have opportunities to sell its  
10 capacity to HQD at like \$10 a kilowatt month in  
11 Canadian. And that's what we compared to the  
12 prices in the New England market.

13 Q Well, that's what I want to ask you about. So  
14 would it surprise you that Ms. Frayer is not  
15 actually aware of any other long-term capacity  
16 contracts like this nor is she aware of any that  
17 are planned? Is that surprising to you?

18 A (Newell) I don't get surprised by a lot of  
19 things.

20 Q So that wouldn't surprise you?

21 A (Newell) I don't know what Ms. Frayer is aware  
22 of. Can you ask the question in a different  
23 way?

24 Q Well, let's get an answer to that one first. I

1 take it doesn't surprise you.

2 A (Weiss) I'm neither surprised or not surprised.  
3 I don't have any sort of opinion on that.

4 Q So now I'll ask you both directly as you set  
5 here today, are either one of you aware of any  
6 other long-term capacity contracts in Quebec  
7 like this?

8 A (Weiss) I'm going to answer with no, but. So  
9 we're not suggesting that there is an actual  
10 procurement out there where we already know the  
11 value of capacity to be a certain amount. What  
12 we're trying to suggest is there's information  
13 contained in the submissions of HQD which are  
14 cited in LEI's report, and in other HQ  
15 documents, the Strategic Plan, that sort of  
16 paint a picture that the Province of Quebec  
17 relative to its own hydro resources, especially  
18 those of Hydro-Quebec, is in need of additional  
19 capacity. And so there is some indication that  
20 that capacity has value in Quebec. That's what  
21 we're saying.

22 Q Let's go back to my question. Am I correct that  
23 neither of you are aware of a similar long-term  
24 capacity contract in Quebec like this?

1 A (Newell) Do you mean here is one example, you're  
2 saying do we know of a second example?

3 Q Yes.

4 A (Weiss) I'm not currently aware.

5 A (Newell) And we are in the business where there  
6 tends to be sometimes, you know, few  
7 transactions and we take as an indicator when we  
8 see one. You know, power plant is sold --

9 Q My question was just are you aware. It sounds  
10 like you're not. And my second question is if  
11 you're not aware of one that's presently in  
12 effect, are you aware of any that are planned.  
13 In early stages, in negotiations, contemplated  
14 in any way?

15 A (Weiss) So you're meaning new solicitations  
16 or --

17 Q I mean a contract like this in Quebec?

18 A (Weiss) That was signed since this one was  
19 signed?

20 Q Or is in the negotiation stage planned. Are you  
21 aware of one?

22 A (Weiss) No.

23 Q So you and Ms. Frayer agree on that point. So  
24 that being said, if none of you know of any that

1 are planned, if none of you know of any other  
2 examples but this one, is it fair to say that  
3 the indicative value of this one contract is  
4 really not very significant?

5 A (Weiss) No. It's not fair to say that.

6 Q Okay. Looking back at the HQ Strategic Plan,  
7 page 2, Exhibit 277, I want to look at page  
8 9760, Dawn.

9 In the third paragraph, it says, "Through  
10 new energy efficiency programs and initiatives  
11 we can also shave up to 1000 megawatts from the  
12 peak capacity needs forecast for 2020." See  
13 that?

14 A (Weiss) Yes, I do.

15 Q So doesn't this suggest that going forward the  
16 needs to procure that additional capacity isn't  
17 going to be necessary for a very long time?

18 A (Weiss) No. It does not.

19 Q And why is that?

20 A (Weiss) Because this, all this says is that it  
21 will shave off up to 1000 megawatts of capacity  
22 needs forecast. It doesn't say anything about  
23 how that capacity needs forecast evolves over  
24 time. It just reduces the need for capacity by



1 up to a thousand megawatts.

2 Q And you would not call that a significant fact?

3 A (Weiss) No, it's a significant fact, but let's  
4 just say that over the same time frame the  
5 capacity need increases by 5,000 megawatts, then  
6 you would still need an extra 4000 megawatts.  
7 I'm not saying the 5,000 megawatts is a real  
8 number, but I'm saying in isolation this does  
9 not say that it eliminates the need for  
10 Hydro-Quebec Distribution to procure additional  
11 capacity to meet its own needs.

12 Q But what we know is there's a definitive  
13 statement and plan to reduce capacity needs by  
14 1000 megawatts, and what I hear you saying is  
15 hypothetically there may be some, there may be  
16 some corresponding increase. That's what you're  
17 saying?

18 A (Newell) So you can also at the first line of  
19 this page, and it's not hypothetical. When you  
20 talk about shaving off demand, it's always, you  
21 have to ask the question, with respect to what?  
22 Relative to what? So they have, they're telling  
23 us they have growing needs, they're telling us  
24 they're going to shave off a thousand. Does

1 that, does that leave you still net needs? It  
2 might. We can't tell from this.

3 Q Mr. Pappas also asked you this morning about  
4 your criticisms of LEI's production cost savings  
5 calculations. Do you recall that?

6 A (Newell) I recall when we talked about the  
7 production cost calculation.

8 Q And I believe that the actual production cost  
9 calculation numbers that LEI came up with are  
10 confidential so I'm not going to talk about the  
11 specific numbers. But it is true that Ms.  
12 Frayer included an analysis of production cost  
13 savings in her Original Testimony and report.  
14 Right? The first one that was filed?

15 A (Newell) Right.

16 Q And it's my recollection that when we talked  
17 about that this, talked about this at the  
18 Technical Session, you didn't express any  
19 concerns about the production cost savings  
20 benefit because I think you said it was tied to  
21 the energy market price forecast, and as you  
22 said today, you've adopted LEI's energy market  
23 prices, does that sound familiar?

24 A (Newell) Yes, but I need to correct you on

1 something.

2 Q Okay.

3 A (Newell) The original report had two different  
4 estimates of production cost savings. I didn't  
5 like the one that said the cost of energy in  
6 Quebec is zero. That didn't make sense to me.  
7 But there was another one, it was in a footnote,  
8 that recognized that energy in Quebec does cost  
9 something, and it put it at 25, and that's the  
10 one that I had in mind.

11 Q We need to be careful about numbers, I think.  
12 And Julia or somebody will remind me if --

13 A (Newell) I apologize. Let me just point out  
14 these were hypotheticals.

15 Q Understood. I'm not sure we've run afoul of  
16 anything.

17 A I shouldn't have said it, but the numbers that I  
18 said were examples or hypotheticals. But I  
19 apologize.

20 Q Here's what we know. Ms. Frayer did talk about  
21 production cost savings and those benefits in  
22 her initial report, right?

23 A (Newell) That's right.

24 Q And in all of the supplemental documents that

1           you filed right up through April 17th, I don't  
2           think you once made mention of or criticized her  
3           description of those production cost benefits,  
4           did you?

5       A     (Newell) I don't think we really even addressed  
6           production cost benefits because we didn't think  
7           they were, they're not the question that we were  
8           being asked from the perspective of New  
9           Hampshire customers.

10      Q     Yes. Exactly. So if you had no concern with  
11           production cost benefits during that entire time  
12           period, why suddenly did that concern arise  
13           today? Why when you had a full opportunity to  
14           address that issue multiple times did you  
15           suddenly feel the need to address it today?

16      A     (Newell) You may recall that the reason it came  
17           up was because of two things in LEI's  
18           Supplemental Report. One was a table showing a  
19           lot of categories of benefits indicated that  
20           somehow we missed categories of benefits. So  
21           that was, so we had to explain why that's not  
22           additive to the market, the energy market  
23           impacts we already counted.

24                   The second reason it came up is because

1           there was a point in LEI's Supplemental Report  
2           that we used this 1.6 multiplier in some other  
3           analysis and that maybe that should apply here.  
4           And I had to disagree.

5       Q     Understood about the 1.6, and that was a new  
6           criticism, but the table simply elaborated on  
7           the benefits they talked about earlier. It  
8           sharpened the descriptions, right? The benefits  
9           they already accounted for were there in those  
10          original reports.

11       A     (Newell) As I said before, I don't think they  
12           even scored their own evaluation right. I think  
13           there were categories there they didn't  
14           evaluate. But the production cost one that you  
15           said? Sure, that was very plain. That was in  
16           LEI's original report.

17       Q     So I want to move on now to capacity market  
18           benefits. And I think we all agree that in  
19           order for NPT to create capacity market  
20           benefits, they have to both qualify for and  
21           clear the Forward Capacity Auction, right?

22       A     (Newell) Correct.

23       Q     And in order for NPT to qualify 1000 megawatts  
24           for the Forward Capacity Auction, HQ has to have

1 1000 megawatts of excess capacity available to  
2 bid, right?

3 A (Weiss) So just to sort of be clear on the  
4 definitions, you mean HQP?

5 Q Yes. Yes. Sorry.

6 A (Newell) As we described in here, there are  
7 several ways they could qualify. That would be  
8 one.

9 Q Okay. And in order for NPT to clear, it has to  
10 be able to bid into the Auction at or below the  
11 Clearing Price, right?

12 A (Newell) Yeah, that's right.

13 Q And I want to go to your Supplemental Report,  
14 page 3, and on this highlighting, the first  
15 thing that you say is LEI's assumption that NPT  
16 qualifies and clears in ISO-New England's  
17 capacity market is possible but unsupported and  
18 perhaps optimistic, right?

19 A (Newell) Yes. I think that's a good  
20 description.

21 Q And then in the next, going down to the next  
22 point, you say LEI has not yet provided any  
23 basis for its critical assumption that NPT  
24 capacity will qualify and be allowed to offer at

1 prices below X, and you've blocked that number  
2 out because that's confidential. It's the  
3 minimum price in the analysis, right?

4 A (Newell) Your question is?

5 Q I'm just walking --

6 A What is your question though?

7 Q I'm just walking through what you said here to  
8 be able to --

9 A (Newell) But tell me again what is the question.

10 Q It says what it says. That's the question.

11 A (Newell) It does say what it says.

12 Q Okay. I've got to make sure we're on the same  
13 page here. And then finally, you say it's  
14 possible that NPT could qualify and clear, but  
15 there's no guarantee that it will, right?

16 A (Newell) That's one of the biggest uncertainties  
17 facing the market, not just this Project.

18 Q So I want to start by talking about qualifying,  
19 and I will pull up, and I think I'll say I think  
20 it's Exhibit 145. It's your Supplemental Report  
21 redacted. And I want to look at page 9, the  
22 second paragraph.

23 A (Newell) Just a second.

24 Q You said the Applicants have not yet presented

1 evidence in this proceeding about whether or how  
2 they will demonstrate to ISO New England that  
3 they have sufficient excess capacity to meet the  
4 qualification criteria, right?

5 A (Newell) Yes, and it was, remember, this was in  
6 April. Wait. Yeah, this was at the time we  
7 wrote this we had not seen anything which very  
8 much puzzled me because I view this as a really  
9 threshold question, and the topic hadn't been  
10 even addressed in the original report.

11 Q And then on page 12 in the first full paragraph,  
12 with regard to HQ's available capacity, HQP's  
13 available capacity needed to qualify for the  
14 Forward Capacity Auction, you concluded, in sum,  
15 the evidence we were able to identify suggests  
16 that Hydro-Quebec may currently be short on  
17 capacity in the winter peak period, right?

18 A (Weiss) That's what it says.

19 Q So I want to go now to Applicant's Exhibit 102 A  
20 which is the nonconfidential version of LEI's  
21 Rebuttal Report, and we've talked about this a  
22 fair bit. I think you recall that LEI addressed  
23 the issue of supply in its Rebuttal Report by  
24 specifically focusing on Hydro-Quebec



1 Production. And I want to look at page 30,  
2 first full paragraph.

3 What LEI said was they concluded that HQP  
4 surplus capacity generation available for firm  
5 exports to neighboring jurisdictions will equal  
6 at least 1527 megawatts from 2021 onward during  
7 the Quebec control areas' winter system peak  
8 period, right?

9 A (Weiss) That's what it stays there, yes.

10 Q On page 61, first full paragraph, LEI again  
11 concludes, "In 2021 HQP has more than sufficient  
12 excess capacity not only to provide 1000  
13 megawatts over Northern Pass but also to provide  
14 capacity over the Phase II and Highgate  
15 interfaces.

16 MR. PAPPAS: Objection. What we've been  
17 doing over the last 3 or 4 minutes, and I've  
18 been patient, is simply reading either these  
19 gentlemen's report and asking if that's what it  
20 says or reading LEI's report and saying if  
21 that's what it says. We haven't gotten to any  
22 questions. We're just simply repeating what's  
23 either on Direct or Supplemental.

24 PRESIDING OFFICER HONIGBERG: That does

1           seem to be a thing people do around here. Mr.  
2           Needleman?

3           MR. NEEDLEMAN: I think I have been asking  
4           questions, and I certainly appreciate  
5           Mr. Pappas's concerns, and what I'm trying to do  
6           is to stay narrow and focused on these issues  
7           which I think for everyone are quite  
8           complicated.

9           PRESIDING OFFICER HONIGBERG: And I've kind  
10          of been expecting that at some point you would  
11          get to a punch line associated with these  
12          questions about what the documents say. Am I  
13          correct?

14          MR. NEEDLEMAN: You are.

15          BY MR. NEEDLEMAN:

16          Q        So I want to pull up now Figure 18 side by side  
17          with these which we've talked about this  
18          morning. This is the document that was not  
19          available to you when you wrote your April 7th  
20          report. It's since become available. We've  
21          heard what you've said this morning. Okay?  
22          First of all, based on the information presented  
23          here, you would agree that LEI has concluded  
24          that there's 1527 megawatts of excess capacity,

1 right?

2 A (Weiss) So I agree that LEI has concluded which  
3 is not the same thing as Hydro-Quebec having  
4 that excess capacity, just to be clear.

5 Q And you've in various ways tried to pick at this  
6 document, and we've pushed back at that. I  
7 guess my question to you is if you don't believe  
8 that LEI is accurate here about this 1527  
9 megawatts, what do you think is the right  
10 number?

11 A (Weiss) So I don't know what the right number  
12 is, and, you know, and I think that is one of  
13 the problems in this proceeding that basically  
14 all parties, including LEI, I'm going to say the  
15 Applicant, seems to be trying to figure out what  
16 Hydro-Quebec Production's actual or projected  
17 capacity surplus is. So we have, you know, we  
18 and LEI looked at publicly available documents.  
19 We can get into, you know, whether our  
20 conclusions from those publicly available  
21 documents differ or not and why, but presumably,  
22 there are parties that could shed some light on  
23 this. Hydro-Quebec. And Hydro-Quebec  
24 Production in particular. So part of the

1           confusion has to do with this process not having  
2           produced specific information that would clarify  
3           this.

4       Q     You keep talking about confusion.  You'd agree  
5           that Ms. Frayer is not the least bit confused.  
6           You understand that she is completely confident  
7           in these numbers.  You just don't agree with  
8           them, right?

9           MR. PAPPAS:  Objection.  Asks him to  
10          speculate on what Ms. Frayer believes or doesn't  
11          believe.

12          MR. NEEDLEMAN:  I'm not sure it's  
13          speculation at all.  I think it couldn't be more  
14          clear what her position is.

15       A     (Weiss) So it's entirely possible, I don't know  
16           whether Ms. Frayer is completely convinced or  
17           not, I am not convinced by looking at these  
18           numbers.

19       Q     You're not?

20       A     (Weiss) Right, and in the end I think this  
21           process ought to lead to an objective assessment  
22           of whether the evidence is there to support  
23           there being enough capacity or not or at least  
24           enough projected capacity or not.

1 Q Okay. Let's talk about clearing the Forward  
2 Capacity Auction. With regard to clearing the  
3 FCA, what we're talking about is the MOPR,  
4 right? It's meeting that minimum offer floor  
5 price, right?

6 A (Newell) Mostly. I mean, if they also had high  
7 opportunity costs and said hey, we don't want to  
8 clear below \$8 or something, that could be an  
9 issue, too.

10 Q That's actually reflected in one of your charts,  
11 right, which we'll talk about in a minute.

12 The minimum offer floor price is the price  
13 that the Internal Market Monitor at ISO New  
14 England will set as the minimum price that NPT  
15 has to bid, right?

16 A (Newell) Right.

17 Q And for NPT to clear the Forward Capacity  
18 Auction, it has to bid above the MOPR but also  
19 below the ultimate Clearing Price of the  
20 Auction, right?

21 A (Newell) Yes. That's right.

22 Q And Brattle performed a MOPR calculation for the  
23 NPT Project, right?

24 A (Newell) Several calculations.

1 Q So I want to pull up from your April 17  
2 Supplement, page 16, Table 1. I assume this is  
3 familiar to you?

4 A (Newell) Yes.

5 Q Okay. So in this table, my understanding is  
6 that the numbers highlighted in green represent  
7 the MOPR scenarios where your analysis found  
8 that NPT would likely clear, is that right?

9 A Yes. That's right.

10 Q (Newell) And looking at the second line down,  
11 for example, we see a MOPR of \$4.40, right?

12 A (Newell) Right.

13 Q So this reflects a scenario where the offer is  
14 based on existing generation with a high energy  
15 cost, right?

16 A (Newell) Right.

17 Q And this represents the high end of the scenario  
18 where NPT is supplied by existing year-round  
19 surplus generation, correct?

20 A (Newell) Correct.

21 Q All right. I want to call up Applicant's  
22 Exhibit 128. We'll come back to that in a  
23 minute.

24 This is a letter from Richard Cacchione.

1 I'm sure I didn't pronounce that name correctly.  
2 It was written on June 6th, 2016, and he is the  
3 President of Hydro-Quebec Production, and this  
4 letter was written to the United States  
5 Department of Energy. Have you seen this  
6 document before?

7 A (Newell) I don't think so.

8 Q In this letter, Mr. Cacchione in the highlighted  
9 portion right there, the President of  
10 Hydro-Quebec Production, says no new hydro is  
11 being developed to provide power for Northern  
12 Pass. Do you see that?

13 A I see it.

14 Q Now, I want to go back for a minute to your  
15 table, page 16, Table 1. So based on the  
16 statement you just saw from the President of  
17 Hydro-Quebec Production, wouldn't you agree that  
18 at least your third scenario which posits that  
19 new generation is needed doesn't apply?

20 A (Newell) No. Not necessarily. The thing is,  
21 we've seen so many different statements. We've  
22 seen the statement that, you know, just when we  
23 just went through the supply scenario as we went  
24 through that they're going to add 500 megawatts

1 of capability. You know, that -- we've seen  
2 different things. In the Strategic Plan that  
3 they'll add capability. So sure. Given that  
4 assumption that there's no new hydro that has to  
5 be built to support the capacity year-round,  
6 then I would say that column, in fact that that  
7 column in our analysis, in fact that, the one  
8 you pointed to, would apply. Again, there's  
9 still uncertainty even around that number.  
10 We're guessing. The Market Monitor will do his  
11 own calculation, but this is our version, but  
12 yes, that would apply under that assumption. I  
13 just can't say that assumption is necessarily  
14 true.

15 Q You said column. I want to clarify. So let me  
16 ask the question again just to be clear. If Mr.  
17 Cacchione, the President of HQP, is correct,  
18 then the row on your chart, the bottom one that  
19 says new generation needed to support year-round  
20 surplus, that wouldn't be applicable if he's  
21 correct, right?

22 A (Newell) So, you know, I think you have a good  
23 point about this.

24 A (Weiss) Could you sort of go back to the



1 previous exhibit with the letter, please?

2 Q Yes. Dawn, could you pull that up?

3 A (Weiss) Great. So I think what's important here  
4 and we have already touched upon this a couple  
5 of times today is it may indeed be the case that  
6 Hydro-Quebec is not going to build new  
7 hydrogeneration specifically for this Project.  
8 It could be instead that Hydro-Quebec has a  
9 policy, that maybe the Province of Quebec even  
10 has a policy, to develop hydro resources over  
11 time to serve export markets and export  
12 opportunities. And those new hydro facilities  
13 in the Strategic Plan, it actually said in 2020  
14 we're going to figure out our next big  
15 opportunity. Those hydro facilities will  
16 clearly have costs, construction costs.

17 The question is whether in the MOPR  
18 analysis, the Market Monitor, you know, the  
19 question is how the Market Monitor would look at  
20 those costs associated with just generically or  
21 generally building new hydro facility to serve  
22 the export market. Even if you cannot make a  
23 specific link to the Northern Pass Project.

24 Q I think we've gotten away from my question.

1 A (Weiss) No. It's exactly that.

2 Q Good. Well, let's go back to it then because I  
3 need an answer. So pull the chart up, please.  
4 I'm looking at your third line. New generation  
5 needed to support year-round surplus. If Mr.  
6 Cacchione, the President of HQP, is correct, and  
7 that no new generation is needed for Northern  
8 Pass, that's not applicable, is it?

9 A (Weiss) Wrong. That's what Dr. Weiss was just  
10 explaining is that just because you don't build  
11 a new hydro specifically for that project  
12 doesn't mean the Market Monitor would view this  
13 as being oh, that's all sunk costs, existing  
14 capacity, not for this purpose. The Market  
15 Monitor might say oh, look at that. It's not  
16 one-for-one tied. You're not building the new  
17 dam for this Project, but you have a policy of  
18 building the dam, exporting, building some dams,  
19 exporting. That's expensive capacity. And he  
20 might decide to include, therefore, the cost of  
21 new generation in the MOPR. That would put us  
22 right on the bottom row to answer your question.

23 Q You think the Market Monitor might take into  
24 account the statements of HQP when they're

1 making those sorts of decisions?

2 A (Newell) You know what? Rather than doing one  
3 MOPR calculation, we did many, and the reason is  
4 we don't know what the Market Monitor will do.  
5 They have not addressed this particular  
6 situation before. They will have a lot of  
7 complicated issues they'll have to work through.  
8 And we can only guess how they'll deal with  
9 those.

10 Q Lets go back to the letter on page 2, Dawn. I  
11 want to look at the second to last paragraph,  
12 last sentence. Just highlight the last  
13 sentence. Hydro-Quebec currently has.

14 So, again, this is Mr. Cacchione. He says,  
15 writing to the US Department of Energy,  
16 Hydro-Quebec currently has energy surpluses that  
17 are more than sufficient to supply the necessary  
18 power over the new transmission line.

19 So do you think that an objective third  
20 party reading this letter could look at your  
21 Table 1 on page 16 and conclude that NPT could  
22 be supplied from the first category which you  
23 style existing year-round surplus?

24 MR. PAPPAS: Objection. That calls for

1 speculation.

2 PRESIDING OFFICER HONIGBERG: Overruled.

3 You can answer.

4 A (Newell) So first of all, you may have, I don't  
5 know, is that the sentence you intended to  
6 highlight?

7 Q Yes.

8 A (Newell) We have no doubt that there's energy to  
9 sell. The question is capacity. It's ability  
10 to always be able to provide power over that  
11 line including in the winter when Quebec has its  
12 greatest needs.

13 Q Understood. And this statement is completely  
14 consistent with LEI's analysis, isn't it?

15 A (Newell) This statement has nothing to do with  
16 LEI's analysis of capacity. Energy is different  
17 from capacity.

18 Q You didn't do any analysis showing that they  
19 don't have the excess capacity, right? Again,  
20 you just said it's uncertain.

21 A (Newell) It's uncertain.

22 Q Right.

23 A (Newell) And I also have to correct that when  
24 you pointed out it's only about Romaine and that

1 was built a while ago or decided to build,  
2 there's, I think you also referred to this  
3 Footnote 40 in the LEI report that refers to and  
4 the Strategic Plan that refers to increasing the  
5 capacity of existing assets. I don't know how  
6 much capital they need to spend to expand the  
7 capacity of existing assets, but it's clearly  
8 not only, if that's true and I do, it's not just  
9 Romaine.

10 Q Let's go back to your April 17 Supplemental  
11 Report, the table again, page 16, Table 1. Both  
12 your analysis and LEI's analysis projected  
13 Clearing Prices for the FCA that are  
14 confidential, right?

15 A (Newell) Right.

16 Q And I'm going to try to avoid getting into the  
17 specifics of those. I'm just going to ask you a  
18 couple of general questions.

19 The point we agreed on earlier was that for  
20 NPT to clear the Forward Capacity Auction it has  
21 to bid above the MOPR or the floor price but  
22 below the ultimate Clearing Price of the  
23 Auction. Right?

24 A (Newell) Right.

1 Q Your \$4.40 floor price that we see in this chart  
2 is lower than the Clearing Price in each of the  
3 scenarios that you confidentially modeled,  
4 correct?

5 A (Newell) Yeah, that's right. That why we put  
6 in green those would easily clear and have the  
7 capacity market benefits.

8 Q And it's also lower than the clear price  
9 estimated by LEI, right?

10 A (Newell) Right.

11 Q So based on the numbers we just talked about,  
12 the information from Mr. Cacchione, everything  
13 else that we went through, in those scenarios  
14 NPT would clear; isn't that correct?

15 A (Newell) Yes. That was our point.

16 Q On page 17 when you calculated your MOPR as we  
17 talked about this morning, you also included the  
18 cost of the Canadian portion of the transmission  
19 line, right?

20 A (Newell) Yes. We did.

21 Q And I think in your report at the time you said  
22 those costs were somewhere around 450 million US  
23 and I think this morning, Mr. Weiss, you said it  
24 was closer to 500 now with the current exchange

1 rate.

2 A (Weiss) 600 million Canadian dollars roughly.

3 Q Ballpark, right? So I assume you're both aware  
4 that when Ms. Frayer testified and was being  
5 questioned by Mr. Pappas regarding the  
6 constructing the Canadian portion of the line,  
7 her opinion was that it should not be included  
8 for purposes of the MOPR calculation. Do you  
9 know that?

10 A (Newell) I do know that's her opinion. It  
11 puzzled me.

12 Q Okay. Let's look at it. I'm going to pull up  
13 transcript from Day 13 Afternoon, page 88, line  
14 11.

15 So Mr. Pappas asked Ms. Frayer, would you  
16 agree with me that when the Internal Market  
17 Monitor looks at the capital costs necessary to  
18 deliver 1000 megawatts of capacity for the  
19 Forward Capacity Auction, that the Internal  
20 Market Monitor is going to include the cost of  
21 the 79 kilometer transmission line as part of  
22 the capital costs and she said no, I don't agree  
23 with that. Right? That's what we were just  
24 talking about.

1 A (Newell) Yes.

2 Q Then on page 89, line 18, she explains her  
3 reason. She says I've agreed that it's  
4 necessary, but it's not necessary to be  
5 reflected in the MOPR because of the way that  
6 this investment is being funded. This  
7 investment is going to be funded through  
8 existing transmission tariffs, and those  
9 transmission tariffs would have to be paid for  
10 by HQP to HQT if they were going to ship power  
11 to New England over Northern Pass or if they  
12 were going to ship power or for that matter sell  
13 capacity and then ship power to New York or  
14 Ontario or to any external market using the  
15 point-to-point tariff that HQP currently has in  
16 its existence. HQT. Do you see that?

17 A (Newell) I see the text.

18 Q When you offered your opinion this morning,  
19 saying you disagree with Ms. Frayer's conclusion  
20 on this issue, did you have this specific  
21 rationale in mind?

22 A You know, to tell you the truth, I've always  
23 been, I was confused by what LEI said in its  
24 report, and what it said here. I was actually



1           there sitting right where I think Tom is during  
2           this. And it just doesn't make any sense to me.  
3           And I'll tell you, we acknowledged the many  
4           things we don't know --

5       Q     I just asked you if you had it in mind.

6       A     (Newell) What's the "it"? Her argument? Her  
7           argument never made sense to me.

8       Q     So your testimony is you don't understand her  
9           argument on this issue.

10      A     (Newell) I'll tell you her argument in this case  
11           is to me is, it just doesn't make sense. I  
12           mean, it's not that this is an area unfamiliar  
13           to me. You need to understand I have worked for  
14           the Market Monitor. I have, for them, produced  
15           the offer review trigger prices that are used  
16           for the Minimum Offer Price Rule. They were  
17           in its tariff. I know about this stuff. Ms.  
18           Frayer's explanation to me was nonsense. I told  
19           you about things that I don't know the Market  
20           Monitor will do. About this, I am confident the  
21           Market Monitor will view this, if it's part of  
22           the Project, if this is transmission that is  
23           part of this Project, those costs get included.

24      Q     You say you know about this stuff, but you just

1 got done testifying a little while ago that this  
2 is an unusual Project, that we don't know what  
3 the Market Monitor is going to do. So how can  
4 you know what the Market Monitor is going to do  
5 and you know about this stuff sometimes but  
6 other times you don't know about it?

7 A (Newell) Well, you can't say that.

8 Q You just said it though.

9 A (Newell) There are different components of this.  
10 So when you talk about the hard costs, that's  
11 easy. I mean, they built this line. That is  
12 not the part that is unusual and new. What  
13 would be unusual and new is how do you think  
14 about the generation costs in a place where is  
15 it completely clear they built the generation  
16 for this Project? There are a number of aspects  
17 that are uncertain. How it might treat the  
18 clean energy aspects, but about this, no. The  
19 hard costs of the equipment to make this Project  
20 happen, that's not uncertain. Those get  
21 included.

22 Q So when you say that Ms. Frayer's argument  
23 doesn't make sense, do you mean you understand  
24 it and you don't agree with it or do you mean

1           you don't understand it?

2           A     (Newell) I think I understand what she was  
3           trying to say. That it's somehow, that the way  
4           it was getting paid for, it's not relevant  
5           costs, and I disagree with that.

6           Q     All right. So given that you think you  
7           understand what she was saying, explain why you  
8           disagree with what she was saying here.

9           A     (Newell) This language is not even very  
10          specific. I mean --

11          Q     I'm not asking you to critique the language.  
12          You told me you understand it. So based on your  
13          understanding, tell me why she's wrong.

14          A     (Newell) Can we go back up to one page above.

15          Q     Sure. Can you put them side-by-side, Dawn, so  
16          he can see both of them together?

17          A     (Newell) And actually, before we get into the  
18          words, can I ask you a question for a second?

19          Q     No. It's my turn to ask questions.

20          A     (Newell) All right.

21          Q     After we're done, we can talk.

22          A     (Newell) Okay. But can I read it first?

23          Q     Absolutely.

24          A     (Newell) Wait. That was a question. Sorry. I

1 didn't mean to ask you a question.

2 Q Dawn, can we put them side by side so he can see  
3 the complete statement?

4 A (Newell) Yeah, so actually, go back up, all I  
5 need is, if you go back up to this page right  
6 here. Okay. Let's look at the next one, too.

7 Q So her answer is the bottom of 89 and the top of  
8 90.

9 A (Newell) Yes. And so let me tell you what I was  
10 disagreeing with. First on page 89, where it  
11 says -- so start even with the question. Isn't  
12 this 79 kilometer transmission line necessary to  
13 provide a thousand megawatts of power. I assume  
14 that means associated with Northern Pass. And  
15 the answer was that that is, yes, that's  
16 necessary. So it is part of the Project. But  
17 somehow it's not, it shouldn't be reflected in  
18 the MOPR because of the way this investment is  
19 funded, and what I'm telling you is the Market  
20 Monitor doesn't care how an investment was  
21 funded. The hard costs get included, and that  
22 is the most important element of the MOPR. It  
23 is there specifically to make sure that you  
24 don't have an uneconomic project coming in at

1 low cost because somebody else is funding part  
2 of it. For example, through some kind of a  
3 subsidiary or an arrangement perhaps like this.

4 So I don't even need to read the rest of  
5 it. That is, you know, again, this is not an  
6 area of doubt, given the agreement that this is  
7 part of the Northern Pass Project. You know, if  
8 we were talking about some transmission  
9 somewhere that was going to be needed in any  
10 case, it really doesn't have anything to do with  
11 Northern Pass, that's fine.

12 Q All right. So let's sharpen this issue, and  
13 then I'm going to move on. Obviously, you and  
14 Ms. Frayer have a pretty extreme disagreement  
15 about this. Okay? I want you to assume for a  
16 moment that Ms. Frayer is correct. Okay? If  
17 she is, and that 450 million, maybe now 500  
18 million, should not have been included in  
19 Brattle's MOPR calculation, then the minimum  
20 offer floor price you calculated would be lower,  
21 right?

22 A (Newell) Given that very strong assumption, yes.

23 Q And in turn, if it's lower, that means that it  
24 would further enhance Northern Pass's chances of

1 clearing, correct?

2 A (Newell) Yes. And I actually have to give you a  
3 number here. How big a difference would it  
4 make? So every number in this table includes  
5 the cost of the HQ of the Northern Pass  
6 Transmission Project. As it should.

7 Q Right.

8 A (Newell) Oh, you think so?

9 Q Remember, no questions.

10 A (Newell) Oh, right. And if you were to, if you  
11 wanted a version of the table that excluded that  
12 part of the Project, it's easy. It's just this  
13 table in every instance minus about \$4 a  
14 kilowatt month. That's how much the HQ piece of  
15 the transmission contributed to it.

16 Q All right. So now let's try to zoom out here  
17 for a minute. We've seen that you and Ms.  
18 Frayer have pretty strong disagreements about  
19 whether HQ has sufficient excess capacity to bid  
20 into the FCA, and we've looked at the very  
21 detailed and complicated assessments that you've  
22 both done on this issue.

23 You agree with me that up to this point in  
24 time, HQ has invested money to permit and build

1 the Canadian interconnection for Northern Pass,  
2 right?

3 A (Newell) Sorry. I don't know.

4 Q You have no idea whether HQ has been investing  
5 money for the lengthy permitting process going  
6 on in Canada?

7 A (Newell) You know, I just have to say I don't  
8 know their role and how much they were paying.  
9 I would be surprised if they're not putting in  
10 some, but I just don't have the info.

11 Q You think it's a pretty fair assumption that  
12 they're spending money up there to do this?

13 A (Newell) That would surprise me.

14 Q And they're certainly investing money in the US  
15 side through the TSA, right?

16 A (Newell) I just don't know what they're putting  
17 in monetarily. So, first of all, you know, just  
18 can't say anything specifically. I would say  
19 probably. But development costs, they cost  
20 nothing compared to the cost of a Project.  
21 There are lots of Projects, lot of clients of  
22 mine that send money, including on us, to  
23 consider developing a project, and then, you  
24 know, sometimes they happen, more of the time

1           they don't. You know. But they are spending  
2           money, a little money in the development stage.

3       Q     You actually, you don't know how much, and it  
4           probably surprise you to know how much, wouldn't  
5           it?

6       A     (Newell) I just don't know, but it's not like  
7           laying down line.

8       Q     And, in fact, to this day, HQ is continuing to  
9           invest money in this Project, both in the US  
10          through the TSA and in Canada; fair to say?

11      A     (Newell) Don't know but I'll go with it.

12      Q     Okay. And you and Ms. Frayer may disagree about  
13          what the excess capacity that HQ has available  
14          is, but you'd agree with me that HQ knows what  
15          it is, right?

16      A     (Newell) So I think there were two questions  
17          there. Was one of them that HQ would have by  
18          far the best information on its --

19      Q     Right.

20      A     (Newell) -- total supply. But I don't know if  
21          it was a question. You said we disagree. I  
22          just have to correct something you said. It's  
23          not that LEI says it's one number, and we say  
24          nope, it's another number. We say absent a



1 presentation from HQ, we're only, we and LEI,  
2 too, are only able to patch together, if you  
3 look at their Table 18, lots of different  
4 sources. You know, did you capture all the  
5 elements that will be there?

6 Q Understood.

7 A (Newell) Our point is we don't do.

8 Q You don't know. LEI thinks they do know.  
9 Regardless of those two things, we can agree  
10 that HQ probably has a pretty good idea, right?

11 A (Newell) The best idea, keeping in mind that  
12 even they face uncertainties about their future  
13 demand, whether they can achieve that energy  
14 efficiency, that's the distribution side, but  
15 they have the best information.

16 Q So looking at all of this then from a common  
17 sense perspective, given that HQ has this  
18 information, given that HQ has been  
19 investigating the resources it's been  
20 investigating for a long time now to do this  
21 development both on the US side and the Canadian  
22 side, just from a common sense perspective, you  
23 think it makes any sense that they'd be  
24 investing all of these resources if they weren't

1 pretty confident that they had the access  
2 capacity to clear the market?

3 MR. PAPPAS: Objection. That calls for  
4 speculation.

5 MR. NEEDLEMAN: I don't think it does. I  
6 think the whole case is about this issue.

7 PRESIDING OFFICER HONIGBERG: Overruled.  
8 They can answer.

9 A (Newell) So the thing you need to understand is  
10 even though for New Hampshire this capacity  
11 market thing is what we're all looking at  
12 because that's where it might lower prices in  
13 the market, that's not the purpose of the  
14 Project. The purpose of the Project is  
15 something else. It doesn't even necessarily  
16 have to do with capacity.

17 Q I think -- can we go back to my question?

18 MR. PAPPAS: No, I think he's answering  
19 your question.

20 A (Newell) No. I think that's exactly your  
21 question. There's plenty of reason. So, you  
22 know, the Mass. RFP, as we've discussed before,  
23 I don't think that even includes capacity. I  
24 mean, this is about, this is about can you get,

1 can you get low cost clean energy some, you  
2 know, from Canada. And that, it's always been  
3 about energy, it's been about clean and it's not  
4 a foregone conclusion that, of course, you  
5 wouldn't do this without capacity. That's just  
6 not the case. Capacity has incremental cost to  
7 provide it. I can't draw those --

8 Q This Project has been going on for about 7 or 8  
9 years, and the Mass. RFP only came along in the  
10 last year or so, correct? Yes or no?

11 A (Newell) Sure, but it's no different from the  
12 track record of all clean energy procurements.  
13 I mean, the states have been doing clean energy  
14 procurements for several years. They don't even  
15 have a capacity component. It's either energy  
16 or RECs or both.

17 Q Let's come back to my question, and you can  
18 answer it anyway you want.

19 Given the importance of capacity in a  
20 Project like this, given the fact that HQ has  
21 been investing the time and the resources  
22 they've invested, do you think from a common  
23 sense perspective it makes sense they would have  
24 done all that if they weren't pretty confident

1 that they could clear?

2 MR. CUNNINGHAM: Mr. Chair, it's Art  
3 Cunningham.

4 PRESIDING OFFICER HONIGBERG: Mr.  
5 Cunningham.

6 MR. CUNNINGHAM: I object.

7 PRESIDING OFFICER HONIGBERG: On what  
8 grounds?

9 MR. CUNNINGHAM: Hydro-Quebec should have  
10 been a party to this docket so we could have  
11 these questions of the source. This is all  
12 speculation and secondary information.

13 PRESIDING OFFICER HONIGBERG: So you don't  
14 want them to answer this question?

15 MR. CUNNINGHAM: I think it's an  
16 objectionable question because it's based on  
17 speculation, and a party that is necessary to  
18 this docket is not in this docket.

19 PRESIDING OFFICER HONIGBERG: Okay.  
20 Overruled. Mr. Pappas, you wanted to say  
21 something?

22 MR. PAPPAS: I was going to say my same  
23 objection.

24 PRESIDING OFFICER HONIGBERG: You think

1 Hydro-Quebec should be here, too?

2 MR. PAPPAS: No. My same objection as I  
3 made before.

4 PRESIDING OFFICER HONIGBERG: I understand,  
5 and we're going to see if we can, we're going to  
6 let them have this last discussion which I think  
7 is the last discussion anyway.

8 A (Weiss) So I'll try another way at this. So  
9 let's just sort of assume that Hydro-Quebec has  
10 spent a fair amount of money on basically  
11 development costs, but that does not by itself  
12 mean that LEI's or our assessments of what  
13 capacity market impact that would have are  
14 relevant.

15 So this is a Project that's developed, and  
16 it will have private benefits to the parties  
17 that are involved. Right? The Project will  
18 sell some combination of energy, potentially  
19 capacity, potentially clean energy attributes.  
20 It will be, there are spreadsheets, lots of  
21 spreadsheets, I assume, that will calculate the  
22 revenue streams and compare that to any cost  
23 that might occur.

24 Now, if they consider the revenues from the

1 Project if it's built sufficient to justify the  
2 costs, then they will continue to invest. As  
3 part of that, they have to get approval by this  
4 Committee, right? And this Committee is less  
5 interested in whether or not the parties to  
6 Northern Pass make money. They're interested in  
7 whether it produces benefits to New Hampshire  
8 and New Hampshire customers and ratepayers. And  
9 it's really there that this capacity story  
10 enters very that, you know, whether or not this  
11 Project qualifies, clears, and has corresponding  
12 impacts on capacity prices in New England is  
13 relevant only at that level.

14 So we don't know whether it's ultimately  
15 even in Hydro-Quebec's interest to sell  
16 capacity, as we discussed earlier. It could be  
17 that capacity that they have is more valuable in  
18 Quebec than it is in New England. So it's  
19 entirely possible that this Project makes sense  
20 for the parties to this Project completely  
21 independent of whether or not it qualifies  
22 and/or clears in the New England capacity  
23 market.

24 Q Are you done?

1 A (Weiss) Yes.

2 Q I think I have my answer. Thank you. All set.

3 PRESIDING OFFICER HONIGBERG: All right. I  
4 think it probably doesn't make sense to have the  
5 Committee ask its questions, and then Mr. Pappas  
6 do whatever Redirect he has. That's in part  
7 because the Witness Panel that will start after  
8 this Panel won't be starting until after ten  
9 tomorrow morning anyway. So we're going to  
10 adjourn for the day, return at 9 o'clock, we'll  
11 have Committee questions, and then redirect from  
12 Mr. Pappas.

13 (Hearing recessed at 5:01 p.m.)

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C E R T I F I C A T E

I, Cynthia Foster, Registered Professional Reporter and Licensed Court Reporter, duly authorized to practice Shorthand Court Reporting in the State of New Hampshire, hereby certify that the foregoing pages are a true and accurate transcription of my stenographic notes of the hearing for use in the matter indicated on the title sheet, as to which a transcript was duly ordered;

I further certify that I am neither attorney nor counsel for, nor related to or employed by any of the parties to the action in which this transcript was produced, and further that I am not a relative or employee of any attorney or counsel employed in this case, nor am I financially interested in this action.

Dated at West Lebanon, New Hampshire, this 6th day of November, 2017.

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Cynthia Foster, LCR